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CURRICULUM VITAE

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SUMMARY

Jane Ambuko Lukhachi is an Associate Professor of Horticulture, Department of Plant Science and Crop Protection, University of Nairobi. She holds a BSc Agriculture and MSc Horticulture (University of Nairobi) and PhD Agricultural Sciences (Horticulture and Postharvest Major) from Tsukuba University, Japan. Her current duties and responsibilities at the University include teaching, research, student supervision and outreach activities. Her area of specialization and focus in training, research and outreach activities is postharvest management – science and practice. In this regard she is actively engaged in adaptive research, validating, and scaling up of postharvest technologies mainly targeting smallholder farmers.

She leads a multi-disciplinary research team (University of Nairobi Postharvest Projects Research Team) which is credited with various achievements in Postharvest Research and Outreach initiatives. Among the notable achievements include 1) Conceptualization the All-Africa Postharvest Congress & Exhibition (AAPHCE) as a biennial convening for stakeholders to share information and showcase innovations for food loss and waste reduction in the African Context. The AAPHCE has now been adopted by the African Union Commission as a biennial pan-African convening to showcase technologies, innovations, policies, strategies for food loss and waste reduction in the African context. 2) Cascading marking of the United Nation's International Day of Awareness of Food Loss and Waste (IDAFLW) to the Country level in Kenya. Subsequently, in partnership with development partners and other agriculture sector actors including SNV-Kenya, FAO, SOCAA, KALRO, ASNET, Prof. Ambuko has organized national forums to mark the IDAFLW in 2020, 2021 and 2022. The IDAFLW serves to create awareness about FLW and a call to action for various stakeholders. Kenya's national event is officially recognized by the international IDAFLW team at FAO, Rome 3) Postharvest technology and innovation scale up – this has been achieved through various community engagement and outreach activities guided by the 'lab to land' initiative. To achieve this, Prof. Ambuko and her research team have spearheaded training, demonstration and practical application of postharvest technologies including low-cost cold storage technologies and small-scale processing technologies. With support from development partners including the Rockefeller Foundation, Foundation for Food and Agriculture Research, World Food Program and the National Research Fund, NRF-Kenya, Prof Ambuko and her research team have established smallholder aggregation and/or processing centers for smallholder farmers and traders in Embu, Machakos, Vihiga, Wajir, Turkana and Marsabit Counties. These centers are equipped with simple cooling technologies and/or small-scale processing equipment for fruits and vegetables. The centers have helped the farmers/traders to preserve the food, reduce losses and have better market access for their produce 4) Training and Capacity building activities – apart from student training, Prof. Ambuko has organized and facilitated various capacity building activities for various practitioners in the agriculture/horticulture sector in Kenya and beyond. These activities are aimed at building a critical mass of experts with adequate knowledge on postharvest management with the goal of addressing the problem of food loss and waste in food supply chains.

Prof. Ambuko is active in research and leads several multi-disciplinary research projects supported by various development partners including the Rockefeller Foundation, National Research Fund – Kenya, United Kingdom Research & Innovation (UKRI), United States Agency for International Development (USAID), United Nation's Food and Agriculture Organization (FAO), United Nation's World Food Program (WFP), AGROFRESH LTD, among others. Through the multi-disciplinary research projects, Prof Ambuko has supported and mentored graduated students in various degree programs. She has supervised 38 graduate students (MSc and PhD) to completion and more than 20 others are ongoing at various stages of their graduate studies. Together with her

students and research collaborators, Prof. Ambuko has authored over 70 scientific articles in peer-reviewed journals and over 120 conference papers presented in international conferences. She has also published articles for the non-scientific public in Agriculture sector publications/magazines such the Pan-African Agriculture, HortiNews, HortFresh, Seeds of Gold, Smart Harvest among others. As part of efforts to create awareness about research and innovation, Prof Ambuko has also participated in various local and International TV Programs such as Market Place Africa (CNN International); The Inquiry (BBC), Shamba Shape-up (Citizen TV), Smart Farm (Citizen TV), Food Friday (NTV), Morning Show (KTN) and Farmer TV.

To foster academia-industry partnership and provide academic leadership in the marketplace, Prof. Ambuko serves on various agriculture/horticulture sector committees including the Fresh Fruits and Vegetables Committee of the Kenya Bureau of Standards (KEBS), the National Horticulture Technical Working Group (Ministry of Agriculture), the Mango Technical Working Group, The National Postharvest Taskforce (Ministry of Agriculture). She represents research and academia on the Horticulture-sector led annual conference on Fruits and Vegetables.

For her achievements in research and outreach initiatives, Prof. Ambuko has received recognition from the University of Nairobi (Academic Excellence Merit Award, 2022); the National Diversity and Inclusion Awards and Recognition; Innovation Champion under the USAID Feed the Future; Top Influencer under the African Women in Agricultural Research and Development (AWARD) and other honorable mentions. She is a recipient of several prestigious fellowships including the Norman Borlaug Fellowship (2014), AWARD Fellowship (2013) and ABCF Fellowship (2014). She has served a member of the High-Level Panel of Experts (HLPE) of UN-FAO on Food Security and Nutrition (2014); 3-D Commission on Health, Boston University (2020-2021).

Prof. Ambuko has held various administrative/leadership positions within the University and outside. In the University, Prof Ambuko Heads the Horticulture Unit and coordinates the PhD Horticulture Program. She serves in various committees in the Department and Faculty including the Research and Seminars Committee, the Innovation, Commercialization & Visibility Committee and the Faculty Conferences Committee. She is a member and/or chair of various University committees including the Nairobi Innovation Week, The UoN Research Week Committee, the Agricultural Technology and Innovation Center Implementation Committee, the Sericulture Project Implementation Committee, the UON-MRM Safal Partnership Committee. Outside the University, Prof Ambuko serves on various technical committees in the agriculture/horticulture sector. She serves as an external examiner for various Universities (local and international). She is the national secretary of the Kenya National Young Academy of Sciences (KNYAS), National Vice President, Kenya-International Forum for Science Alumni (Ke-IFSA), National Vice Chair, Kenya Japan Scholars (MEXT) Alumni Association, Member of Executive Committee of the Kenya Japan Alumni Association (KEJAA). She is East Africa's Regional Coordinator for International Society of Horticultural Science (ISHS). She is a member of several professional bodies including the International Society of Horticultural Science (ISHS); American Society of Horticultural Science (ASHS); Horticultural Association of Kenya; African Women in Science & Engineering (AWSE); Kenya National Young Academy of Sciences (KNYAS) and Kenya Professional Association of Women in Agriculture and Environment (KEPAWAE).

Her career goal as an Agricultural/Horticultural Scientist is to contribute to the continued growth of the Agriculture/Horticulture Sector (local and global) through generation, transmission and dissemination of knowledge, innovations and technologies required sustainable transformation. She is also a champion of food loss and waste reduction towards realization of sustainable development goal, SDG 12 (3).

A. PERSONAL INFORMATION

Nationality: Kenyan

Profession: Horticultural Scientist (Area of Specialization – Postharvest Management)

Current Position: Associate Professor and Head of Horticulture Unit, Department of Plant Science and Crop Protection, University of Nairobi

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B. EDUCATIONAL/ACADEMIC QUALIFICATIONS

- 2008:** Doctor of Philosophy in Agricultural Science (Horticulture and Postharvest Major), Tsukuba University, Japan. Thesis title: ‘Study on preharvest factors affecting quality and postharvest characteristics of the banana fruit and alleviation of its chilling injury’.
- 2001:** Master of Science in Horticulture, University of Nairobi.
Thesis title: ‘Effect of Gibberellins and Benzyladenine on yield, yield components and the postharvest shelf life of French beans, *Phaseolus vulgaris* L.
- 1996:** Bachelor of Science in Agriculture, University of Nairobi.
- 1987:** Kenya Certificate of Secondary Education (KCSE), Bunyore Girls High School
- 1983:** Kenya Certificate of Primary Education (KCPE), Mulwakhi Primary School

C. SELECTED TRAINING COURSES

- 2019:** Pedagogy, Andragogy and Mentorship Training. 19th to 21st June, 2019, CCU, Nairobi
- 2013:** Short course in Postharvest Technology by Postharvest Technology Center, University of California Davis, June 2013
- 2010 – 2012:** Postharvest Training of Trainers Program for Sub-Saharan Africa, Horticulture

Collaborative Research Support Project by the Postharvest Education Foundation

2011: Professional Capacity Building Program on Interactive Competency for Rural Innovation in Higher Education by International Center for Development Oriented Research in Agriculture (ICRA), Wageningen – Netherlands

2008 – 2010: Multi-stakeholder’s Learning Change Process of Strengthening University Capacity for Promoting, Facilitating and Teaching Rural Innovation Processes (SUCAPRI), sponsored by EDULINK

2009: Phytosanitary Systems Training Course. 14th – 25th September 2009, Nakuru, Kenya. Organized by the International Plant Protection Convention (IPPC), Kenya Plant Health Inspectorate Service (KEPHIS) and University of Nairobi Under the Centre of Phytosanitary Excellence (COPE) Project.

2010: Sanitary/Phytosanitary Capacity Building Training – Tuskegee University in Cooperation with United States Department of Agriculture (USDA)

2013 – 2014: AWARD (Africa Women in Agricultural Research and Development) 2-year mentorship program. Science Writing; Leadership Training, Advanced Science Training Programs

D. WORK EXPERIENCE

PERIOD	APPOINTMENT	RESPONSIBILITIES
October 2019 to date	Associate Professor, University of Nairobi	Teaching, Research, Supervision of students and outreach activities Courses taught include: Postharvest Physiology and Technology; Industrial Crops; Beverage, Medicinal and Nut crops (BSc); Advanced Fruit Production and Beverage Crops; Advanced Postharvest Physiology and Phytosanitary Standards (MSc); Crop Quality & Postharvest Management Systems (PhD)

November 2014 to October 2019	Senior Lecturer, University of Nairobi	Teaching, Research, Supervision of students and outreach activities Courses taught include: Postharvest Physiology and Technology; Industrial Crops; Beverage, Medicinal and Nut crops (BSc); Advanced Fruit Production and Beverage Crops; Advanced Postharvest Physiology and Phytosanitary Standards (MSc); Crop Production & Postharvest Management Systems (PhD)
October 2008 to 2014	Lecturer, University of Nairobi	Teaching, Research, Supervision of students and outreach activities. Courses taught include – Same as Lecturer Position plus Crop Production & Postharvest Management Systems
2002 to 2008	Tutorial Fellow University of Nairobi	Teaching (supervised by Senior Lecturer), Courses taught include: Industrial Crops and Fruit Production
1997 to 2001	Agricultural Extension Officer	Agricultural extension activities including: packaging extension messages and training farmers; demonstration of horticultural technologies during field days; writing divisional reports
1999 to 2000	Part-time Program Officer, Kenya Professional Association of Women in Agriculture & Environment (KEPAWAE)	Day to day running of the KEPAWAE Secretariat, coordination of KEPAWAE programs, publication of KEPAWAE Annual Newsletter
1996 to 1997	Graduate Research Assistant, Department of Crop Science	Daily running of the tissue culture lab activities including tissue media preparation for researchers, culture of explants, mass multiplication of TC plantlets

E. PUBLICATIONS IN REFERRED JOURNALS

1. Jumbale M, Okoth M W, Abong G O, **Ambuko J**, Gekonge D. Product and process development of mango flakes using response surface methodology. East African Journal of Science, Technology and Innovation, Vol. 4 (2023): Special issue (The HORTI-GREEN Project)
2. Sikwaya M S., Abong G O., **Ambuko J.**, Gekonge O D. Formulation, acceptability, and chemical characteristics of mango nectar enriched with moringa moringa oleifera, lam

3. Bitange NM, Chemining'wa GN, **Ambuko J** and WO Owino (2023). Effect Of Varied Calcium Formulations And Time Of Application On Postharvest Quality And Organoleptic Acceptability Of Mango Fruits. Afr. J. Food Agric. Nutr. Dev. 2023; 23(3):22871-22892 <https://doi.org/10.18697/ajfand.118.22485>
4. Mbusa Sikwaya Schadrack, George Ooko Abong, **Jane Ambuko** & Duke Gekonge Omayio Chemical and Phytochemical Composition of the Kenyan Apple and Tommy Atkin Mango Pulp. International Journal of Science and Technology. Volume XI, Issue 4, DOI No.: 10.24940/theijst/2023/v11/i4/ST2304-006
5. Amwoka, E.M., **Ambuko, J.L.**, Jesang, H.M. and Owino, W.O. (2022). Comparative evaluation of the effectiveness of selected storage technologies to preserve postharvest quality of mango fruit. Acta Hort. 1348, 43-50 <https://doi.org/10.17660/ActaHortic.2022.1348.6>
6. Hutchinson, M. J., Ouko, J. R., Yumbya, P. M., **Ambuko, J. L.**, Owino, W. O., & Subramanian, J. (2022). Efficacy of Hexanal Field Spray on the Postharvest Life and Quality of Papaya Fruit (*Carica papaya* L.) in Kenya. Advances in Agriculture, 2022.
7. Gitau K, **Ambuko J**, Chemining'wa G and W Owino (2022). Effect Of Harvest Stage And Nitrogen Fertilization On The Postharvest Shelf Life Of Black Nightshade (*Solanum Nigrum* L.) And Collard (*Brassica oleracea* var. *acephala* L.). Afr. J. Food Agric. Nutr. Dev. 2022; 22(6): 20737-20751 <https://doi.org/10.18697/ajfand.111.22085>
8. Muiruri J, **Ambuko J**, Nyankanga R and WO Owino (2022). Maturity Indices Of Specific Mango Varieties Produced At Medium Altitude Agro-Ecological Zone In Kenya. Afr. J.

Food Agric. Nutr. Dev. 2022; 22(6): 20752-20774

<https://doi.org/10.18697/ajfand.111.22025>

9. Kathambi J, **Ambuko J**, Hutchinson M and W Owino (2022). Effect Of Coolbot™ Cold Storage And Modified Atmosphere Packaging On The Shelf Life And Postharvest Quality Of Collards. Afr. J. Food Agric. Nutr. Dev. 2022; 22(6): 20668-20686
<https://doi.org/10.18697/ajfand.111.22075>
10. Owino W. O. and **Ambuko, J.L.** Mango Fruit Processing: Options for Small-Scale Processors in Developing Countries. Agriculture 2021, 11, 1105.
<https://doi.org/10.3390/agriculture 11111105>
11. Esther Mujuka, John Mburu, Ackello Ogutu , **Jane Ambuko** , George Magambo. Consumer awareness and willingness to pay for naturally preserved solar-dried mangoes: Evidence from Nairobi, Kenya. Journal of Agriculture and Food Research (5) 2021.
<https://doi.org/10.1016/j.jafr.2021.10018>
12. Bitange NM, Chemining'wa GN, **Ambuko JL** and WO Owino. Effects Of Mode And Timing Of Calcium Chloride Application On Tissue Calcium Concentration And Acceptability Of Mango Fruits. Afr. J. Food Agric. Nutr. Dev. 2021; 21(8): 18552-18573
<https://doi.org/10.18697/ajfand.103.20350>
13. Beulah Pretorius , **Jane Ambuko** , Effie Papargyropoulou and Hettie C. Schönfeldt. Guiding Nutritious Food Choices and Diets along Food Systems. Sustainability 2021, 13, 9501. <https://doi.org/10.3390/su13179501>
14. Meggie Mwoka, Olivia Biermann, Catherine K. Ettman, Salma M Abdalla, **Jane Ambuko**, Mark Pearson, Sabina Faiz Rashid, Zahra Zeinali & Sandro Galea, Laura Magaña Valladares and Blessing Mberu. Housing as a Social Determinant of Health: Evidence from

Singapore, the UK, and Kenya: the 3-D Commission. J Urban Health

<https://doi.org/10.1007/s11524-021-00557-8>

15. Olivia Biermann & Meggie Mwoka & Catherine K. Ettman & Salma M Abdalla & Sherine Shawky & **Jane Ambuko** & Mark Pearson & Zahra Zeinali & Sandro Galea & Blessing Mberu & Laura Magaña Valladares. Data, Social Determinants, and Better Decision-making for Health: the 3-D Commission. J Urban Health <https://doi.org/10.1007/s11524-021-00556-9>
16. Emmanuel M. Amwoka, **Jane L. Ambuko**, Hutchinson M. Jesang', and Willis O. Owino (2021). Effectiveness of Selected Cold Chain Management Practices to Extend Shelf Life of Mango Fruit. Advances in Agriculture <https://doi.org/10.1155/2021/8859144>
17. Peninah Yumbya, **Jane Ambuko**, Margaret Hutchinson, Willis Owino, John Juma, Eunice Machuka, J. Musembi Mutuku. Transcriptome analysis to elucidate hexanal's mode of action in preserving the post-harvest shelf life and quality of banana fruits (*Musa acuminata*). <https://doi.org/10.1016/j.jafr.2021.100114> Journal of Agriculture and Food Research, Vol 3
18. Isaac O. Nyangena, Willis O. Owino, **Jane Ambuko** and Samuel Imathiu (2020). Moisture sorption properties of two varieties of dehydrated mango slices as determined by gravimetric method using Guggenheim–Anderson–de Boer model. Journal of Food Processing and Preservation. <https://doi.org/10.1111/jfpp.15041>
19. Tembe, Kenneth; Samson Lagat; **Jane Ambuko**; George Chemining'wa; and Willis Owino. 2020. Variation in Morphological and Agronomic Traits of Selected African Eggplant Accessions. Journal of Medicinally Active Plants 9, (2):34-46. DOI: <https://doi.org/10.7275/1fy5-dy82>

20. Enock, Mosenda, George Chemining'wa, **Jane Ambuko** and Willis Owino. 2020. Effect of Water Stress on Growth and Yield Components of Selected Spider Plant Accessions. *Journal of Medicinally Active Plants* 9, (2):81-97.
21. Enock, Mosenda, George Chemining'wa, **Jane Ambuko** and Willis Owino. Assessment of Agronomic Traits of Selected Spider Plant (*Cleome gynandra* L.) Accessions. *Journal of Medicinally Active Plants*. 9, (4): 222-241. DOI: <https://doi.org/10.7275/n1wf-6y77>
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23. T. Nikuze, E.M. Miinda, **J. Ambuko** and O.W. Owino. Identification of Microsatellite Markers to Bacterial Wilt Resistance in African Egg Plant. *Afri. J. Hort. Sci.* 17:127-142
24. Benson Maina, **Jane Ambuko**, Margaret Hutchinson and Willis Owino (2020). The effect of waxing options on shelf life and postharvest quality of 'ngowe' mango fruits under different storage conditions. *Advances in Agriculture*. Volume 2019, Article ID 5085636, 9 pages. <https://doi.org/10.1155/2019/5085636>
25. Esther Mujuka, John Mburu, Ackello Ogutu and **Jane Ambuko** (2020). Returns to investment in postharvest loss reduction technologies among mango farmers in Embu County, Kenya. *Food and Energy Security* Volume 9, Issue1. DOI: 10.1002/fes3.195
26. Antony Bundi, John Mburu, Stephen Mbogoh, **Jane Ambuko** (2020). Factors Influencing the Adoption of Pre-Harvest Practices among Mango Farmers in Embu and Machakos Counties, Kenya. *International Journal of Postharvest Technology and Innovation*. 7(1):56 DOI: [10.1504/IJPTI.2020.108744](https://doi.org/10.1504/IJPTI.2020.108744)
27. Isaac O. Nyangena, Willis O. Owino, Samuel Imathiu , **Jane Ambuko**. Effect of pretreatments prior to drying on antioxidant properties of dried mango slices, *Scientific African* (2019), doi: <https://doi.org/10.1016/j.sciaf.2019.e00148>

28. Isaac Nyangena, Willis Owino, **Jane Ambuko** and Samuel Imathiu (2019). Effect of selected pretreatments prior to drying on physical quality attributes of dried mango chips. *Journal of Food Science and Technology*. DOI 10.1007/s13197-019-03857-9
29. Yumbya, P., Hutchinson, M., **Ambuko, J.**, & Owino, W. (2019). Effect of Hexanal as a Post-harvest Treatment to Extend the Shelf-life of Banana Fruits (*Musa acuminata* var. Sweet Banana) in Kenya. *International Journal of Plant & Soil Science*, 29(2), 1-16.
30. N. M. Bitange, G. N. Chemining'wa, **J. Ambuko** and W. O. Owino (2019). Yield and Tissue Calcium Concentration of Mango (*Mangifera indica* L.) Fruit as Influenced by Calcium Source and Time of Application. *International Journal of Plant & soil Science*, 28(4): 1-12
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31. Manyozo, F. N., **Ambuko, J.**, Hutchinson, M. J., Kamanula, J. F., (2018). Effectiveness of evaporative cooling technologies to preserve the postharvest quality of tomato, *International Journal of Agronomy and Agricultural Research*, 13(2), 114–127
32. Loreto Atieno, Willis Owino, Elijah Miinda Ateka and **Jane Ambuko**. (2019). Influence of coating application methods on the postharvest quality of cassava". *International Journal of Food Science*. Article ID 2148914, 16 pages. <https://doi.org/10.1155/2019/2148914>
33. C. Chemutai., G.N. Chemining'wa and **J. Ambuko** (2018). Effect of fertilizers and harvesting method on yield of cowpea. *African Journal of Rural Development*, Vol. 3 (2): pp. 779-785.
34. George Chemining'wa, **Jane Lukachi Ambuko**, Sam Koile (2018). Effect of fertilizers, time of pinching and harvesting method on growth and yield of spider plant (*Cleome gynandra*). *International Journal of Agronomy and Agricultural Research (IJAAR)* Vol. 13, No. 5, p. 9-21, 2018
35. Tembe KO, Chemining'wa G, **Ambuko J**, Owino W (2018). Evaluation of African tomato landraces (*Solanum lycopersicum*) based on morphological and horticultural traits, *Agriculture and Natural Resources*, <https://doi.org/10.1016/j.anres.2018.11.014>.

36. Peninah Mueni Yumbya, Margaret Jesang Hutchinson, **Jane Ambuko**, Willis Omondi Owino, Alan Sullivan, Gopinadhan Paliyath and Jayasankar Subramanian (2018). Efficacy of hexanal application on the post-harvest shelf life and quality of banana fruits (*Musa acuminata*) in Kenya. *Tropical Agriculture* Volume 95, 1: 14-35
37. Margaret Jesang Hutchinson, John Robert Ouko, **Jane Ambuko**, Willis Omondi Owino and Jayasankar Subramanian (2018). Effects of hexanal dip on the post-harvest shelf life and quality of papaya (*Carica papaya* L.) fruit. *Tropical Agriculture* Volume 95, 1: 43-70
38. Anne Kangai, Felister Nzuve, **Jane Ambuko** and Damaris Odeny (2018). Heritability Analysis and Phenotypic Characterization of Spider Plant (*Cleome gynandra* L.) for Yield. *Advances in Agriculture*. Article ID <https://doi.org/10.1155/2018/8568424>
39. M. W. Gateri, R. Nyankanga, **J. Ambuko** and A. W. Muriuki (2018). Growth, Yield and Quality of Onion (*Allium cepa* L.) as Influenced by Nitrogen and Time of Topdressing. *International Journal of Plant & Soil Science*. Article no.IJPSS.42135 ISSN: 2320-7035
40. **Jane Ambuko**, Esther Karithi, Margaret Hutchinson and Willis Owino (2018). Modified atmosphere packaging enhances the effectiveness of Coolbot cold storage to preserve postharvest quality of mango fruits. *Journal of Food Research*, Vol 7 (5).
41. Gateri M. W., Nyankanga R., **Ambuko J.** And A. W. Muriuki (2018). The Influence Of Rate And Time Of Nitrogen Top Dressing On The Storage Quality Of Onion (*Allium Cepa* L.) *International Journal of Agriculture, Environment and BioResearch*. Vol. 3, (4) Pg. 477-492
42. Mbondo, N. N., W. O. Owino. **Ambuko, J.**, and Ndaka, S. D. (2018). Effect of drying methods on the retention of bioactive compounds in African eggplant (*Solanum aethiopicum* L.). *Food Sci Nutr*. 2018:1–10.

43. Loreto Atieno Oduor, Willis Owino, Elijah M. Ateka, **Jane Ambuko** (2018). Effect of Surface Coatings on the Shelf life and Quality of Cassava. *Journal of Food Research*. Vol. 7. (1): 46-60.
44. Mungai, G., Owino, W., **Ambuko, J.**, Giovannoni, J., Nyende, A., & Michuki, G. (2018). Genetic diversity within African tomato using next generation sequencing. *Plant Genetic Resources: Characterization and Utilization*, 16(4), 296-305.
doi:10.1017/S1479262117000314
45. **Ambuko Jane**, F. Wanjiru, G. N. Chemining'wa, W.O. Owino and Eliakim Mwachoni (2017). Preservation of Postharvest Quality of Leafy Amaranth (*Amaranthus spp*) Vegetables Using Evaporative Cooling. *Journal of Food Quality*. Article ID 5303156, <https://doi.org/10.1155/2017/5303156>
46. James F. Thompson, Michael S. Reid , Lucia Felix, Irwin Donis-Gonzalez, Bertha Mjawa, and **Jane Ambuko** (2017). DryCard™ — A Low-Cost Dryness Indicator for Dried Products. *AIMS Agriculture and Food*, 2017, 2(4): 339-344. doi: [10.3934/agrfood.2017.4.339](https://doi.org/10.3934/agrfood.2017.4.339)
47. **Ambuko Jane**, Florence Wanjiru, Esther Karithi, Margaret Hutchinson, George Chemining'wa, Eliakim Mwachoni Britta Hansen, Lusike Wasilwa, Willis Owino and Ngoni Nenguwo (2018). Cold chain management in horticultural crops value chains: options for smallholder farmers in Africa. *Acta Horticulturae 1225: 85-91*
48. **Ambuko Jane**, Esther Karithi, Margaret Hutchinson, Lusike Wasilwa, Britta Hansen and Willis Owino (2018). Postharvest shelf life of mango fruits stored in a Coolbot™ cold room. *Acta Horticulturae 1225:193-197*
49. Kirakou P. Stanley, Hutchinson J. Margaret, **Jane Ambuko** and Willis O. Owino (2017). Efficacy of blanching techniques and solar drying quality of cowpea leaves. *Afr. J. Hort. Sci.* 11:18-34
50. **Jane Ambuko**, Nancy Kemunto, Margaret Hutchinson and Willis Owino (2017). Comparison

- of the Postharvest Characteristics of Mango Fruits Produced under Contrasting Agro-Ecological Conditions and Harvested at Different Maturity Stages. *Journal of Agricultural Science*; Vol. 9 (8): 181-192
51. Stephen Maloba, **Jane Ambuko**, Margaret Hutchinson and Willis Owino (2017). Off-Season Flower Induction in Mango Fruits Using Ethephon and Potassium Nitrate. *Journal of Agricultural Science* Vol. 9 (9): 158-167
52. Tembe Kenneth O., George N. Chemining'wa, **Jane Ambuko**, Willis Owino (2017). Effect of water stress on yield and physiological traits among selected African tomato (*Solanum lycopersicum*) land races. *Int. J. Agron. Agri. Res.* 10(1), 78-85
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F. BOOK CHAPTERS

- Willis Owino and **Jane Ambuko**. (2016). Advances in Ethylene Signal Transduction in Fruits and Vegetables, Book Chapter In Postharvest Ripening Physiology of Crops. Pp. 339 – 359
- **Jane Ambuko** and Willis Owino (2023). Towards Sustainable Transformation through Post-Harvest Management: Lessons from the Mango Value Chain in Kenya – in Press
- **Jane Ambuko**, Duncan Onyango Mbuge and Emmanuel Amwoka (2023). ‘Effectiveness of evaporative cooling to extend shelf life of fruits and vegetables’ – Chapter 5 in *Evaporative Coolers for Postharvest Management of Fruits and Vegetables*. Edited by Charles Oluwaseun, Daniel Ingo Hefft, Duncan Onyango Mbuge and Tilahun Seyoum Workneh. Academic Press, ISBN 978-0-323-89864-5

G. POLICY BRIEFS

Esther Mujuka, Prof Jane Ambuko, Prof John Mburu and Prof Ackello Ogutu (2021). Investment in Technologies: Key Strategy for Postharvest Loss Reduction. *KENYA POLICY BRIEFS*, Vol 2 (1) 47-48

H. PATENTS: REGISTERED UTILITY MODELS

1. **Jane Ambuko**, Duncan Mbunge and Eliakim Mwachoni, Registered Utility Model Reinforced Brick Cooler, Registration Number KE/UM/2020/1454
2. **Jane Ambuko**, Duncan Mbunge and Eliakim Mwachoni, Registered Utility Model Evaporative Charcoal Cooler, Registration Number KE/UM/2020/1455
3. **Jane Ambuko**, Duncan Mbunge, Eliakim Mwachoni and Collins Kirui. Resized Brick Evaporative Cooler. IP registration number KE/U/2023/2216

I. CONFERENCE PAPERS

I. PEER-REVIEWED

1. **Ambuko Jane**, Klug Israel, Mujuka Esther, Mburu John, Ooko George, Amwoka Emmanuel, Gekonge Duke, Githumbi Rose, Okumu Carren, Ouko Robert. Postharvest Quality Management in Food Commodities used in School Meals: A Case Study of Schools in Kajiado and Kitui Counties of Kenya. Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September 2023, Addis Ababa, Ethiopia
2. Emmanuel Amwoka, **Jane Ambuko**, Rose Githumbi, and Esther Mujuka. . Extent of Postharvest Losses, Causes and Mitigation Measures: A Case Study of Mango in Kenya. Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September 2023, Addis Ababa, Ethiopia
3. Emmanuel Amwoka, Duke Gekonge, and Jane Ambuko. Quantitative and qualitative losses along the cowpea vegetables supply chain in Kenya: a load tracking case study. Quantitative and qualitative losses along the cowpea vegetables supply chain in Kenya: a load tracking case study. Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September 2023, Addis Ababa, Ethiopia
4. Esther Mujuka, Israel Klug, **Jane Ambuko**, John Mburu, Rose Githumbu, Emmanuel Amwoka⁶,

Robert Ouko and Duke Gekonge. Extent of Postharvest Losses and Critical Loss Points along the Bean Supply Chain in Kajiado and Kitui Counties of Kenya. Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September 2023, Addis Ababa, Ethiopia

5. Naum Jepkirui, Joyce G. Maina, Judith Atela, **Jane Ambuko**, Benjamin Kyalo. Effects Of Graded Levels Of Mango Seed Kernels In Broiler Diets On Growth And Carcass Characteristics. Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September, 2023, Addis Ababa, Ethiopia
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7. Geoffrey Chomba, **Jane Ambuko**, Cecilia Onyango. Effect Of Different 1-Methylcyclopropene Formulations And Dosing On The Ripening Profile Of Tommy Atkins Mango Fruits. Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September 2023, Addis Ababa, Ethiopia
8. Justa Kathambi, **Jane Ambuko**, Margaret Hutchinson and Willis Owino. Effectiveness of Coolbot™ Technology to Preserve Postharvest Quality and Extend Shelf Life of Tomato Fruits. Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September 2023, Addis Ababa, Ethiopia
9. Karen Wambui, **Jane Ambuko**, George Chemining'wa and Willis Owino. Effect of Blanching and Drying techniques on quality characteristics of Collard (*Brassica oleracea* var. *acephala*) and Black night shade (*Solanum nigrum*). Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September 2023, Addis Ababa, Ethiopia

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11. Mourice Fodrick Omondi, **Jane Ambuko** and Dora Kilalo. Effect of Hot Water Treatment on Disinfestation for Fruit Flies and Quality Attributes in Mango Fruit. Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September 2023, Addis Ababa, Ethiopia
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13. Winnie Yegon, Ishmael Mganda and **Jane Ambuko**. Cascading the African Union Continental Strategy for Postharvest Management to National Levels: Kenya's Case Study. Accepted for Presentation at the 4th All Africa Postharvest Congress & Exhibition, 19th to 22nd September 2023, Addis Ababa, Ethiopia
14. **Jane Ambuko**. Food Loss and Waste Reduction in Horticultural Value Chains: The Zero-loss Centers Approach. Feed the Future Innovation Labs Regional Conference. May 15-17, 2023. Windsor Hotel, Nairobi
15. **Jane Ambuko**. "Food Loss and Waste Reduction: For the People, for the Planet". Invited Keynote at the 1st Scientific Conference and Exhibition 2023, Kenya Agricultural and Livestock Research Organization. 27th to 31st March 2023, KALRO Headquarters
16. Pole F. N., Gweyi J. O., **Ambuko J.**, and Wasilwa L. A. Effect of Pre-and Post-Harvest Handling Practices on Quality of Bixa Produced under Different Fertilizer Amendments. 1st Scientific Conference and Exhibition 2023, Kenya Agricultural and Livestock Research Organization. 27th

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19. Pole F.N., Gweyi J.O., **Ambuko J.** and Wasilwa L. Effect Of Organic And Inorganic Fertilizers On The Yields And Quality Of Bixa In Kwale **COUNTY**. 1st Scientific Conference and Exhibition 2023, Kenya Agricultural and Livestock Research Organization. 27th to 31st March 2023, KALRO Headquarters
20. Alice G. Nyoro*, Onesmus. M. Kitonyo, **Jane. L. Ambuko**. Effect of integrated use of vermicompost and inorganic NPK fertilizer on growth and yield of strawberry. 1st Scientific Conference and Exhibition 2023, Kenya Agricultural and Livestock Research Organization. 27th to 31st March 2023, KALRO Headquarters
21. **Jane Ambuko**. Improving Postharvest Management Systems: for Food Security and Environmental Sustainability. Kenya Food Systems Conference, 4-5 April 2023, Safari Park Hotel, Nairobi
22. **Jane Ambuko**, David Ameyaw, Penina Yumbya and Roberta Blankson. Challenges and Opportunities in East Africa's Horticulture Sector: A call to action for researchers from a stakeholders' perspective. Horticultural Association of Kenya (HAK), Annual Conference, AICAD, Kenya. 28th November to 2nd December 2022
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fertilizer amendments. Horticultural Association of Kenya (HAK), Annual Conference, AICAD, Kenya. 28th November to 2nd December 2022

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25. Geoffrey Chomba, **Jane Ambuko** and Cecilia Onyango. Effect of different 1methylcyclopropene Formulations on the ripening profile of Tommy Atkins mango. Horticultural Association of Kenya (HAK), Annual Conference, AICAD, Kenya. 28th November to 2nd December 2022
26. **Jane Ambuko**, Emmanuel Amwoka, Margaret Hutchinson and Willis Owino. Zero-Loss Centers: Concept for Postharvest Loss Reduction and Better Market Access for Smallholder Horticultural Farmers. Invited Keynote, Presented at the 31st International Horticultural Congress (IHC), 14-20th August, Angers, France
27. Emmanuel Amwoka, **Jane Ambuko**, Margaret Hutchinson and Willis Owino. Simple Cold Chain for Smallholder Horticultural Farmers: Case Study in Mango Fruit. Presented at the 31st International Horticultural Congress (IHC), 14-20th August, Angers, France
28. Mwarome Jumbale, M.W. Okoth, George Ooko Abong', **Jane Ambuko**, Duke Gekonge. Optimization of processing parameters in the production of mango flakes. Presented at the Consortium of Postharvest Loss Reduction, Annual Symposium, Kwame Nkurumah University, Ghana, June 6-10, 2022
29. Mbusa Sikwaya, George Ooko Abong, **Jane Ambuko**, and Duke Omayio Gekonge. Utilization of Moringa Leaf Extract for Micronutrient Enrichment of Mango Nectar. Presented at the Consortium of Postharvest Loss Reduction, Annual Symposium, Kwame Nkurumah University, Ghana, June 6-10, 2022

30. Mujuka, E., Mburu, J., Ogutu, A., & **Ambuko, J.** Willingness to pay for postharvest technologies among smallholder mango farmers in Kenya. A Paper presented at the 31st Virtual International Conference of Agricultural Economists. 17 – 31 Aug, 2021.
31. **Jane Ambuko.** Food Loss and Waste Reduction: Why it matters for sustainable food systems. Presented at the University of Oregon School of Law, 40th Annual Public Interest Environmental Law Conference (March 3-6, 2022). Food Waste and Sustainability Panel
32. **Jane Ambuko Lukhachi**, George Abong, Duke Gekonge , Emmanuel Amwoka and Bruce Hamaker Strengthening Small-scale Horticultural Processors through the Hub and Spoke Innovation Model: A Case Study of Mango Processing in Kenya. Presented at the 3rd All Africa Postharvest Congress and Exhibition, hosted by the African Union Commission, Virtual, September 13-16, 2021
33. Emmanuel Amwoka, **Jane Ambuko**, Hutchinson Jesang’, and Willis Owino. Evaluation Of Effectiveness Of Low-Cost Cold Storage Options To Preserve Post-Harvest Quality Of Mango. Presented at the 3rd All Africa Postharvest Congress and Exhibition, hosted by the African Union Commission, Virtual, September 13-16, 2021
34. Justa kathambi, **Jane Ambuko**, ¹Margaret Hutchinson, willis owino. Effect Of Coolbottm Cold Storage And Modified Atmosphere Packaging On Shelf Life And Postharvest Quality Of Kale. Presented at the 3rd All Africa Postharvest Congress and Exhibition, hosted by the African Union Commission, Virtual, September 13-16, 2021
35. Karen Wambui, **Jane Ambuko**, George Chemining’wa and Willis Owino: Evaluation of the Harvest Stage and Nitrogen Fertilization on Postharvest Shelf life of Black Night Shades (*Solanum nigrum*) and Kales (*Brassica oleracea*). Presented at the 3rd All Africa Postharvest Congress and Exhibition, hosted by the African Union Commission, Virtual, September 13-16, 2021
36. N.M. Bitange, G. N. Chemining’wa, **J. L. Ambuko**, and W. O. Owino: Effects Of Mode And Timing Of Calcium Application On Tissue Calcium And Shelf Life Of Mango Fruits. Presented

at the 3rd All Africa Postharvest Congress and Exhibition, hosted by the African Union Commission, Virtual, September 13-16, 2021

37. Duke Omayio, George Abong', **Jane Ambuko** and Emmanuel Amwoka. Opportunities and Challenges in Processed Local Fruits and Vegetables: the Case of Small-Scale Food Processors among Kenya Farmers. Presented at the 3rd All Africa Postharvest Congress and Exhibition, hosted by the African Union Commission, Virtual, September 13-16, 2021
38. Jacinta Muiruri1, **Jane Ambuko**, Richard Nyankanga and Willis O. Owino. Maturity Indices of Specific Mango Varieties produced at medium altitude agro-ecological zone in Kenya. . Presented at the 3rd All Africa Postharvest Congress and Exhibition, hosted by the African Union Commission, Virtual, September 13-16, 2021
39. **Jane Ambuko**, Emmanuel Amwoka, George Abong', Catherine Kunyanga, Duke Gekonge and Isaac Maitha. Small-scale processing of mango fruits: putting more money in farmers' pockets while enhancing access to nutritious fruit products. 4th All Africa Horticultural Congress , International Horticultural Society, Senegal, 29-31 March 2021
40. Emmanuel M. Amwoka, **Jane L. Ambuko**, Hutchinson M. Jesang', and Willis O. Owino. Comparative Evaluation of the Effectiveness of Selected Storage Technologies to Preserve Postharvest Quality of Mango Fruit. 4th All Africa Horticultural Congress, International Horticultural Society, Senegal, 29-31 March 2021
41. Peninah Yumbya, **Jane Ambuko**, Margaret Hutchinson, Willis Owino, John Juma, Eunice Machuka, Mutuku J. Musembi. Transcriptome analysis to elucidate hexanal's mode of action in preserving the post-harvest quality of banana fruits. 4th All Africa Horticultural Congress , International Horticultural Society, Senegal, 29-31 March 2021
42. N.M. Bitange, G. N. Chemining'wa, **J. Ambuko**, and W. O. Owino. Effect of Source and Time of Calcium Application on Postharvest Quality of Mango Fruits. 4th All Africa Horticultural Congress , International Horticultural Society, Senegal, 29-31 March 2021
43. Naomi Mbondo, Willis Owino, **Jane Ambuko** and Daniel Sila. Degradation kinetics of beta

carotene and antioxidant capacity during drying of African eggplant. 4th All Africa Horticultural Congress , International Horticultural Society, Senegal, 29-31 March 2021

44. **Jane Ambuko.** Value addition of vegetables for increased access and consumption by urban consumers. Power on Your Plate Conference/Summit, 25-28 January 2021, Hosted by World Vegetable Center, Arusha, Tanzania
45. Willis O. Owino, Elias K. Mibei, Grace M. Wacheke, Jane Ambuko and James J. Giovannoni. Metabolite diversity of fruits of selected African eggplant accessions for improved health and nutrition. Power on Your Plate Conference/Summit, 25-28 January 2021, Hosted by World Vegetable Center, Arusha, Tanzania
46. **Jane Ambuko.** Zero Loss Centers: A Feasible Strategy for Postharvest Loss Reduction and Better Market Access for Smallholder Horticultural Farmers. Presented at the HortiGreen Conference, 5 – 7 October 2020
47. **Jane Ambuko.** Keynote: Climate-smart postharvest technologies to reduce food loss and waste in horticultural value chains: Case study Of ‘Zero Loss’ Centres. Horticultural Association of Kenya Conference, December 1st – 4th , 2020
48. **Jane Ambuko.** Group/Village Aggregation Centers: Strategy for Food Loss Reduction, Better Market Access and Food Security for Smallholder Farmers. Presented at the World Sustainability Summit, Switzerland (Virtual). 15-17th September 2020
49. Esther Mujuka, John Mburu, Chris-Ackello Ogutu, **Jane Ambuko.** Willingness to Pay for Postharvest Technologies and its Influencing Factors among Smallholder Mango Farmers in Kenya. Presented at Tropentag, September 9 - 11, 2020, Germany, virtual conference
50. Elizabeth Okello, George Chemining’wa, **Jane Ambuko.** Effect of Pinching Frequency on Growth and Yield of Selected Spider Plant Accessions. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
51. Enock Mosenda, George N. Chemining’wa, **Jane L. Ambuko,** and Onesmus M. Kitonyo. Assessment of Agronomic Traits of Selected Spider Plant Accessions. Presented at Agro 2019

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52. Enock Mosenda, George N. Chemining'wa, and **Jane L. Ambuko**. Effect of Water Stress on Growth and Yield of Selected Spider Plant Accessions. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
53. Jane I. Masambia, George N. Chemining'wa, **Jane L. Ambuko**, and Willis O. Owino. Effects of Organic and Inorganic Fertilizers on Growth, Yield and Nutritional Quality of Slenderleaf. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
54. Martin M. Waiti, George N. Chemining'wa, and **Jane L. Ambuko**. Effect of Water Stress on Growth and Yield Components of Indigenous and Commercial Tomato Genotypes. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
55. Martin M. Waiti, George N. Chemining'wa and **Jane L. Ambuko**. Effect of Nitrogen Fertilization on Growth and Yield of Selected Tomato Accessions and Commercial Varieties. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
56. Mary W. Gateri, Richard Nyankanga, **Jane Ambuko** and Anne W. Muriuki. Effect of Rate and Time of Nitrogen Topdressing on the Quality and Storability of Onions. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
57. Naphis. M. Bitange, George. N. Chemining'wa, **Jane Ambuko** and Willis. O. Owino. Effect of Calcium Nutrition on Jelly Seed Occurrence and Calcium Distribution in 'Van Dyke' Mango Fruit Tissues. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
58. Boen Timon, **Jane Ambuko**, Margaret Jesang Hutchinson and George Chemining'wa. Effect of Harvest Maturity on Quality of Avocado Produced Under Two Agro- Ecological Conditions in Kenya. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
59. Emmanuel Amwoka, **Jane Ambuko**, Hutchinson Jesang' and Willis Owino. Evaluation of Low-Cost Cold Storage Options to Preserve Post-Harvest Quality of Mango. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
60. Sharon N. Inzaule, **Jane Ambuko**, William M. Muiro and Willis Owino. Effectiveness of Sodium

Bicarbonate and Chlorine-Based Sanitizers on Postharvest *Alternaria Alternata* Rots in Tomato Fruits. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya

61. **Jane Ambuko.** Processing Fruits and Vegetables to Increase Profitability and Reduce Postharvest Losses in Smallholder Horticulture while Enhancing Access for Consumers. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
62. Justa kathambi, Jane Ambuko, Margaret Hutchinson and Willis Owino. Effectiveness of Selected Storage Technologies to Preserve Postharvest Quality and Extend Shelf Life of Tomato and Kales. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
63. Maina Benson, **Ambuko Jane**, Hutchinson Margaret and Owino Willis. The Effect of Waxing Technologies on Postharvest Quality of ‘Apple’ Mango Fruit Stored under Different Storage Conditions. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
64. Peninah Yumbya, Margaret Hutchinson, **Jane Ambuko** and Willis Owino. Effects of ‘Enhanced Freshness Formulations (EFF)’ on the Post-harvest Quality of Banana Fruits (*Musa spp*) in Kenya. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
65. Samuel L Caleb and **Jane Ambuko.** Effect of Modified Atmosphere Packaging on the Shelf Life of Carrot and Sweet Paper under Different Storage Conditions. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
66. Ann W. Githaiga and **Jane Ambuko.** Effectiveness of Waxing to Extend the Postharvest Shelf Life of ‘Kent’ Mango Fruit. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya.
67. Lenton Mwenesi and **Jane Ambuko.** Effects of Waxing on the Shelf life of Hass and Fuerte Avocado Fruits. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
68. Antony M. Bundi , John Mburu , Stephen Mbogoh and **Jane Ambuko.** Factors Influencing the Adoption of Pre-harvest Practices among Mango Farmers in Embu and Machakos. Presented at Agro 2019 Conference, 22-24 October, 2019, Nairobi Kenya
69. Esther Mujuka, John Mburu, Ackello Ogutu and **Jane Ambuko.** Returns to Investment in

70. **Jane Ambuko**, Emmanuel Amwoka, Isaac Nyangena, Willis Owino, Margaret Hutchinson, Catherine Kunyanga, George, Chemining'wa and John Mburu. Exploiting the Potential of Smallholder Horticulture through Aggregation and Processing Centers: Case Study of Mango in Kenya. Book of Abstracts pg 93. Presented at the 2nd All Africa Postharvest Congress and Exhibition, September 17-20, 2019. Addis Ababa, Ethiopia
71. Emmanuel Amwoka, **Jane Ambuko**, Hutchinson Jesang' and Willis Owino. Effectiveness of Harvest Practices and Technologies to Maintain Cold-Chain and Extend Shelf Life of Mango Fruit. Book of abstracts Pg 42. Presented at the 2nd All Africa Postharvest Congress and Exhibition, September 17-20, 2019. Addis Ababa, Ethiopia
72. Margaret Jesang Hutchinson, John Robert Ouko, **Jane Ambuko**, Subramanian, Willis Owino and Jayasankar. Effects of Hexanal Spray on the Postharvest Life and Quality of Papaya Fruit in Kenya. Book of Abstracts Pg 85. Presented at the 2nd All Africa Postharvest Congress and Exhibition, September 17-20, 2019. Addis Ababa, Ethiopia
73. Loreto Atieno, Willis Owino, Elijah .M. Ateka and **Jane Ambuko**. Comparability of Two Different Coating Application Methods on Cassava Postharvest. Book of Abstracts Pg 67. Presented at the 2nd All Africa Postharvest Congress and Exhibition, September 17-20, 2019. Addis Ababa, Ethiopia
74. Isaac Nyangena, Willis Owino, **Jane ambuko** and Samuel Imathiu. Effect of Selected Drying Pretreatments on Physical and Nutritional Quality Characteristics of Dried 'Apple' Mango Chips. Book of Abstracts Pg 41. Presented at the 2nd All Africa Postharvest Congress and Exhibition, September 17-20, 2019. Addis Ababa, Ethiopia
75. **Ambuko Jane**. Enhancing Access to African Indigenous Vegetables for Urban Consumers through Value Addition. Africa Indigenous Vegetables: Presented at From Income Generation to Health and Nutrition Conference. Four Points Hotel, Nairobi, July 18-19, 2019

76. Enoch Mosenda, G. Chemining'wa and **J. Ambuko**. Effect of Water Stress on Growth and Yield Components of Selected Spider Plant Accessions. Africa Indigenous Vegetables: Presented at From Income Generation to Health and Nutrition Conference. Four Points Hotel, Nairobi, July 18-19, 2019
77. Tembe K, **J. Ambuko**, G. Chemining'wa, W. Owino and S. Lagat. Variation in Morphological and Agronomic Traits of Selected African Eggplant Accessions. Africa Indigenous Vegetables: Presented at From Income Generation to Health and Nutrition Conference. Four Points Hotel, Nairobi, July 18-19, 2019
78. Mibei E.K, W. Owino, G. M. Wacheke, **J Ambuko**, A.N. Onyango and J.J. Giovannoni. Metabolite Diversity of Fruits of Selected African Eggplant Accessions for Improved Health and Nutrition. Africa Indigenous Vegetables: Presented at From Income Generation to Health and Nutrition Conference. Four Points Hotel, Nairobi, July 18-19, 2019
79. Esther Mujuka, John Mburu, Chris-Ackello Ogutu, **Jane Ambuko**. 'Returns to Investment in Postharvest Loss Reduction Technologies among Mango Farmers in Embu County, Kenya. Tropentag, September 18 - 20, 2019 in Kassel, Germany
80. **Ambuko Jane**, Esther Karithi, Margaret Hutchinson and Willis Owino. Low-cost Cold Storage Technologies to Preserve Postharvest Quality of Fruits and Vegetables. Presented at the LASER-PULSE Conference, Speke Hotel, Uganda. May 6-8, 2019
81. **Jane Ambuko**, Emmanuel Amwoka, Margaret Hutchinson, George Chemining'wa, Catherine Kunyanga, John Mburu and Willis Owino. From the Lab to Land: Taking Postharvest Management Solutions to Horticultural Farmers through Aggregation Centers. Presented at the 6th RUFORUM Biennial Conference, 22-26th October, 2018, KICC, Nairobi - Kenya
82. **Jane Ambuko**. Postharvest Training in Kenya: Universities' Role to Address the Knowledge and Skills Gap in Postharvest Management. Key Note Presentation at the 6th RUFORUM Biennial Conference, 22-26th October, 2018, KICC, Nairobi - Kenya
83. Benson Maina, **Jane Ambuko**, Margaret Hutchinson and Willis Owino. Effect of Different

Waxing Technologies on Shelf Life of Mango Fruits Stored under Different Storage Conditions. Presented at the 6th RUFORUM Biennial Conference, 22-26th October, 2018, KICC, Nairobi - Kenya

84. Emmanuel Amwoka, **Jane Ambuko**, Hutchinson Jesang' and Willis Owino. Effectiveness of Cold Chain Management Practices to Extend Shelf Life of Mango Fruit. Presented at the 6th RUFORUM Biennial Conference, 22-26th October, 2018, KICC, Nairobi - Kenya
85. Naphis Bitange, George Chemining'wa, **Jane Ambuko**, and Willis Owino. Effect of pre and post harvest application of calcium chloride on the shelf life of physiologically mature mango fruits. Presented at the 6th RUFORUM Biennial Conference, 22-26th October, 2018, KICC, Nairobi - Kenya
86. Sam Koile, **Jane Ambuko**, George N. Chemining'wa. Effect of Fertilizer application, Time of Pinching and Harvesting Method on Growth, Yield and Nutritional quality of Cowpeas. Presented at the 6th RUFORUM Biennial Conference, 22-26th October, 2018, KICC, Nairobi - Kenya
87. Inzaule, S.N, **Ambuko, J.**, Muiru. W.M & Owino. W.O. Effectiveness of Sodium Bicarbonate and Chlorine-based Sanitizers on Black Mould Disinfection in Tomato Fruits. Presented at the 6th RUFORUM Biennial Conference, 22-26th October, 2018, KICC, Nairobi - Kenya
88. Isaac Nyangena, Willis Owino, **Jane Ambuko** and Samuel Imathiur. Effect of Selected Drying Pretreatments on Physical Quality Attributes of Dried Mango Chips. Presented at the 6th RUFORUM Biennial Conference, 22-26th October, 2018, KICC, Nairobi - Kenya
89. Waiti M.M., Chemining'wa G.N and **Ambuko J.L.** Effect Of Water Stress On Yield And Yield Components Of Selected African Tomato (*Solanum Lycopersicum*) Accessions And Kenyan Commercial Varieties. Presented at the 6th RUFORUM Biennial Conference, 22-26th October, 2018, KICC, Nairobi – Kenya
90. **Jane Ambuko**, Catherine Kunyanga, Willis Owino, Margaret Hutchinson, George Chemining'wa, John Mburu and Emmanuel Amwoka. Group aggregation can contribute to postharvest loss reduction and better market access for smallholder farmers: mango case study.

Presented at the 30th International Horticultural Congress, Istanbul, Turkey, 12-16th August, 2018

91. Caroline Chemutai, **Jane Ambuko** and George Chemining'wa. Water Stress Promotes Phenolic compounds and Antioxidant Accumulation at the Expense of Growth, Yield and Vitamins in African Nightshades. Presented at the 30th International Horticultural Congress, Istanbul, Turkey, 12-16th August, 2018
92. Willis Owino, Naomi Ms. Mbondo, Jane Ambuko, Daniel Sila. Effect of drying methods on the retention of bioactive compounds in African eggplant. Presented at the 30th International Horticultural Congress, Istanbul, Turkey, 12-16th August, 2018
93. Nikuze Tefania, Elijah M. Ateka, Willis Owino and Jane Ambuko. Management of bacterial (*Ralstonia solanacearum*) wilt in tomato (*Lycopersicon esculentum* Mill.) using resistant African eggplant (*Solanum spp*) rootstocks. 2nd Phytosanitary Conference, 4th to 8th June 2018, at KEPHIS Headquarters, Nairobi, Kenya.
94. **Ambuko Jane:** The 1st All Africa Postharvest Congress and Exhibition – Lessons, Recommendations and Way Forward. Lead Paper Presented at the Ethiopian Society of Postharvest Management. Addis Ababa, Ethiopia. 26-27th January, 2018.
95. **Ambuko, Jane**, Esther Karithi, Hutchinson Margaret, and Owino, Willis. The coolbot™ technology: opportunities and challenges for smallholder horticultural farmers in Africa. Presented at the VI Postharvest Unlimited Conference, October 17-20, 2017, Madrid, Spain
96. **Jane Ambuko**, Jacinta Muiruri, Richard Nyankanga and Willis O. Owino. Effect of maturity at harvest on postharvest quality attributes of mango fruit. Presented at the VI Postharvest Unlimited Conference, October 17-20, 2017, Madrid, Spain
97. **Jane Lukhachi Ambuko**, Willis Omondi Owino and Agoye Dylan Burgess. Bagging can reduce time to maturity and improve visual quality of banana (*Musa Spp*). Presented at the VI Postharvest Unlimited Conference, October 17-20, 2017, Madrid, Spain
98. Willis Owino, Loreto Oduor, **Jane Ambuko**, Elijah Ateka. Edible surface coatings extend the

- postharvest life and quality of cassavaroots. Presented at the VI Postharvest Unlimited Conference, October 17-20, 2017, Madrid, Spain
99. Willis Owino, Kukom Edoh, **Jane Ambuko**, Hippolyte Affognon, Christopher Mutungi and Daniel Sila. Communicating Food Waste and Prevention Strategies in an African Context. Presented at the Cereal 17 Conference, San Diego, California, USA, October 8-11, 2017
100. **Jane Ambuko**. Postharvest management: Universities' role in training and capacity development to address the 'skills gap' in horticultural value chains. Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya
101. **Jane Ambuko**, George. N. Chemining'wa, Eliakim Mwachoni, Florence Wanjiru, Willis.O. Owino and Ngoni Nenguwo. Evaporative cooling technologies: simple and effective cooling alternatives for smallholder horticultural farmers. Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya
102. **Jane Ambuko** , Esther Karithi, Margaret Hutchinson, Willis Owino, Lusike Wasilwa and Britta Hansen. The Coolbot™: a low-cost cold storage alternative for smallholders in developing countries. Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya
103. **Jane Ambuko**, Stephen Maloba, Margaret Hutchinson and Willis O. Owino. Application of off-season flower induction chemicals to address seasonality in mango fruiting and the associated postharvest losses. Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya
104. Yumbya, P.M, Hutchinson, M.J, **Ambuko, J**, Owino, W and Subramanian, J. Efficacy of Hexanal Application on the Postharvest shelf life and Quality of Banana Fruits (*Musa* spp). Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya
105. Ouko, J.R, Hutchinson, M.J, **Ambuko, J**, Owino, W and Subramanian, J. Effects of Hexanal

Formulations on Prolonging the Postharvest Life and Quality of Papaya Fruit. Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya

106. Jacinta Muiruri, **Jane Ambuko**, Richard Nyankanga and Willis O. Owino. Determination of Maturity Indices of three Mango Varieties produced in Embu County of Kenya. Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya

107. Jacinta Muiruri, **Jane Ambuko**, Richard Nyankanga and Willis O. Owino. Effect of Harvest Maturity on the Quality Attributes of Solar-Dried Mango Products of Selected Mango Varieties. Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya

108. Naomi N. Mbondo, **Jane Ambuko**, Daniel N. Sila and Willis O. Owino. Effect of Drying on Degradation of Bioactive Compounds in African Eggplant. Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya

109. Loreto Atieno, Elija M. Ateka, **Jane Ambuko** and Willis Owino. Effect of Guar and Xanthan Gum Coatings on the Shelf Life and Quality of Cassava Roots. Presented at 1st All Africa Postharvest Congress and Exhibition, 28th to 31st March, 2017. Safari Park Hotel, Nairobi, Kenya

110. **Jane Ambuko**. Postharvest management: addressing the 'skills gap' in horticultural value chains. Presented at the Horticultural Association of Kenya Annual Conference, Chuka University, December 2016.

111. Amwoka Emmanuel M and **Ambuko Jane**. Effect of inorganic sanitizing agents on postharvest rotting of sweet paper (*capsicum annum*). Presented at the Horticultural Association of Kenya Annual Conference, Chuka University, December 2016

112. Agoye Dylan Burgess and **Ambuko Jane**. Effect of Pre-Harvest Bagging on Visual Quality

- of Banana Fruits (*Musa Spp*). Presented at the Horticultural Association of Kenya Annual Conference, Chuka University, December 2016
113. **Jane Ambuko**, Florence Wanjiru, Esther Karithi, Margaret Hutchinson, George Chemining'wa, Eliakim Mwachoni Britta Hansen, Lusike Wasilwa, Willis Owino and Ngoni Nenguwo: Cold chain management in horticultural crops value chains: options for smallholder farmers in Africa. Presented at the All Africa Horticultural Congress, Ibadan, Nigeria. August 4-7, 2016
114. **Jane Ambuko**, G. N. Chemining'wa, Eliakim Mwachoni, Florence Wanjiru, W.O. Owino and N. Nenguwo: Efficacy of a modified zero energy brick cooler technology to preserve the postharvest quality of leafy Amaranth vegetables. Presented at the All Africa Horticultural Congress, Ibadan, Nigeria. August 4-7, 2016
115. **Jane Ambuko**, Esther Karithi, Margaret Hutchinson, Lusike Wasilwa, Britta Hansen and Willis Owino. Postharvest shelf life of mango fruits stored in a Coolbot™ cold room. Presented at the All Africa Horticultural Congress, Ibadan, Nigeria. August 4-7, 2016
116. Willis Owino, **J. Ambuko**, N. Nenguwo and R. Mwendwa. Postharvest quality and nutrition characterization of selected commercially grown tomato varieties. ISHS- All Africa Horticultural Congress, IITA, Ibadan Nigeria. 7th – 12th August 2016. Book of Abstracts Pg. 50
117. Mibei E.K., **Ambuko J.**, Giovannoni J., Onyango A.N. and Owino W.O. Metabolomic Analysis to Evaluate the Effect of Drought Stress on Selected African Eggplant Leaves. SolGenomics Conference 2016, UC Davis, USA. Book of Abstracts pg 123
118. **Ambuko Jane**, Kenneth Tembe, George Chemining'wa and Willis Owino. 2016. Effect of Water Stress on Growth, Yield and Nutritional Quality of Selected African Tomato Landraces. Presented at the 13th Annual Solanacea Conference, University of California USA, September 12-16.
119. Willis O. Owino, Lagat Samson, **Jane Ambuko** and George Cheminingwa (2016). Variations in Morphological and Agronomic Traits among African Eggplant Accessions.

Presented at the 13th Annual Solanacea Conference, University of California USA, September 12-16.

120. **Jane Ambuko**. Good Postharvest Handling Practices in Fruits and Vegetables for Nutritional Quality Preservation. Presented at 2nd International Conference on Biodiversity for Food and Nutrition. Safari Park Hotel, Nairobi, Kenya. 23rd November, 2015
121. Kenneth O. Tembe, George N. Chemining'wa, **Jane Ambuko** and Willis Owino. Variation in Nutritional Quality of African Tomato Landraces (*Solanum Lycopersicum*) as Affected by Water Stress. Presented at 2nd International Conference on Biodiversity for Food and Nutrition. Safari Park Hotel, Nairobi, Kenya. 23rd November, 2015
122. Samson Lagat, George N. Chemining'wa, **Jane Ambuko** and Willis Owino. Effects of water stress on growth, yield and nutrition of African eggplant Accessions. Presented at 2nd International Conference on Biodiversity for Food and Nutrition. Safari Park Hotel, Nairobi, Kenya. 23rd November, 2015
123. Daniel. O. Wasonga, **Jane. L. Ambuko**, George N. Chemining'wa and Bridget. G. Crampton. Evaluation Of The Diversity In Agronomic Traits Of Kenyan And South African Spider Plant Accessions For Crop Improvement. Presented at 2nd International Conference on Biodiversity for Food and Nutrition. Safari Park Hotel, Nairobi, Kenya. 23rd November, 2015
124. Kenneth Oduor, **Jane Ambuko**, George Chemining'wa, Willis O. Owino. Phenotypic Characterization in the African Tomato (*Solanum lycopersicum*) Landraces for Crop Improvement. Presented at the Horticultural Association of Kenya Annual Conference, KALRO Kandara, 1st to 4th December 2015.
125. Sam Koile, **Jane Ambuko**, George N. Chemining'wa. Effect Of Fertilizers, Time Of Pinching And Harvesting Method On Growth And Yield Of Cowpea. Presented at the Horticultural Association of Kenya Annual Conference, KALRO Kandara, 1st to 4th December 2015.

126. Samson Lagat, George N. Chemining'wa, **Jane Ambuko** and Willis Owino. Morphological and agronomic characterization of the African eggplant Accessions. Presented at the Horticultural Association of Kenya Annual Conference, KALRO Kandara, 1st to 4th December 2015
127. **Jane Ambuko**, Esther Kariithe, M.J. Hutchinson, B. Hansen, L. Wasilwa and W.O. Owino. 'Coolbot': An Innovative Low-Cost Cold Storage Solution for Smallholder Farmers. Presented at the Horticultural Association of Kenya Annual Conference, KALRO Kandara, 1st to 4th December 2015
128. **Jane Ambuko**, F. Wanjiru, G. N. Chemining'wa, E. Mwachoni, W.O. Owino and N. Nenguwo. Efficacy of a modified zero energy brick cooler technology to preserve the postharvest quality of leafy vegetables. Presented at the Horticultural Association of Kenya Annual Conference, KALRO Kandara, 1st to 4th December 2015
129. **Jane Ambuko**. Good Postharvest Handling Practices in Fruits and Vegetables for Nutritional Quality Preservation. Presented at the 2nd International Conference on Biodiversity for Food and Nutrition. Safari Park Hotel, Nairobi, Kenya. 23rd November, 2015
130. **Jane Ambuko**, Florence Wanjiru, Esther Karithi, Margaret Hutchinson, Britta Hansen, Lusike Wasilwa, Willis Owino and Ngoni Nenguwo. Low-cost cold storage options for smallholder farmers to reduce postharvest losses in fruits and vegetables. The First International Congress on Postharvest Loss Prevention, Oct 4-7, 2015, Rome, Italy. Conference proceedings Pg 126 – 128
131. **Jane Ambuko**, Florence Wanjiru, Esther Karithi, Margaret Hutchinson, Britta Hansen, Lusike Wasilwa, Willis Owino and Ngoni Nenguwo. Efficacy of a modified zero energy brick cooler technology to preserve the postharvest quality of leafy vegetables. Oral Presentation at the University of Nairobi Innovation Week, 3rd to 5th August 2015

132. **Jane Ambuko**, Esther Kariithe, M.J. Hutchinson, B. Hansen, L. Wasilwa and W.O. Owino. 'Coolbot': An Innovative Low-Cost Cold Storage Solution for Smallholder Farmers. Poster Presented at the University of Nairobi Innovation Week, 3rd to 5th August 2015
133. **Ambuko Jane**, Kemunto O. Nancy, Margaret Hutchinson and Willis. O. Owino. Response Of Mango Fruit To 1-Methylcyclopropene As Affected By Agro-ecological Zone And Maturity Stage. Oral Paper Presentation at the 29th International Horticultural Congress, 17th to 22nd August, 2014, Brisbane, Australia
134. **Ambuko Jane**, Kemunto O. Nancy, Margaret Hutchinson and Willis. O. Owino. Comparative Evaluation Of Quality And Sensory Characteristics Of 'Apple' Mango Fruits Produced Under Different Agro-Ecological Zones In Kenya. Poster Presentation at the 29th International Horticultural Congress, 17th to 22nd August, 2014, Brisbane, Australia
135. **Jane Ambuko**, Lilian Ouma, Solomon Shibairo, Margaret Hutchinson and Joseph Njuguna, Willis O. Owino. A Comparative Evaluation Of Maturity Indices Of Mango Fruits Produced In Two Contrasting Agro-Ecological Zones Of Kenya. Presented at the 4th RUFORUM Biennial Conference, 21st to 25th July, 2014. VIP Grand Maputo Hotel, Maputo, Mozambique
136. **Ambuko Jane**. Saving the 'Missing Third' in Food Supply Chains; the Case of Fruit and Vegetables. Lead paper presented at the Horticultural Association of Kenya Conference, Meru University, 2nd to 6th December, 2013.
137. **Ambuko Jane**, Tei Mukunya and Kirk Dolan. Effect of Blanching Time and Drying Method on Physical and Rehydration Properties of Collard Greens (*Brassica oleracea* L). Presented at the Horticultural Association of Kenya Conference, Meru University, 2nd to 6th December, 2013.
138. **Ambuko Jane**. 'Postharvest Loss Management in Perishables'. Invited presentation at the Postharvest Handling of Vegetables Workshop organized by the AVDRC – The World Vegetable Center. 20th to 21st August, 2013, Utalii Hotel, Nairobi.
139. **Ambuko, Jane**, Penina Yumbya, Solomon I. Shibairo, Margaret Hutchinson and Willis. O. Owino. Efficacy of 1-Methylcyclopropene (1-MCP) in Purple Passion (*Passiflora edulis* Sims

Fruits as Affected by Dosage and Maturity Stage. Presented at the American Society of Horticultural Science Conference, Palm Desert Resort, California, USA. ASHS 2013 On-line Book of Abstracts – Pg 67- 68

140. **Ambuko, Jane**, Penina Yumbya and Willis. O. Owino. Evaluation of Quality and Sensory Attributes of Purple Passion Fruit (*Passiflora Edulis* Sims) Harvested at Different Stages of Maturity. Presented at the American Society of Horticultural Science Conference, Palm Desert Resort, California, USA. ASHS 2013 On-line Book of Abstracts – Pg 151-152
141. **Jane Ambuko**, Willis O. Owino, Solomon Shibairo, Margaret Hutchinson and Joseph Kori Njuguna. Improving profitability of the mango value chain through strategies for off-season flower induction, reliable maturity indices and applicable postharvest handling technologies. Project Poster Presented at the 3rd RUFORUM Biennial Regional Conference. Imperial Resort Beach Hotel - Entebbe, Uganda. 24th – 28th September, 2012.
142. **Ambuko, J**, R.W. Githiga, M.J. Hutchnison, H. Gemma and W.O. Owino. Effect of maturity stage and variety on the efficacy of 1-MCP treatments in mango fruits. Presented at the All Africa Horticultural Congress (AAHC), Skukuza, South Africa (15th – 20th January, 2012)
143. Baraza, A, **J. Ambuko**, Y. Kubo and W. O.Owino. Effect of Agro-Ecological Zone and Maturity on the Efficacy of 1-Methylcyclopropene (1-MCP) in Extending Postharvest Life of Purple Passion (*Passiflora Edulis* Sims) Fruits. Presented at the All Africa Horticultural Congress (AAHC), Skukuza, South Africa (15th – 20th January, 2012)
144. **Ambuko, J**, Y. Sekozawa, S. Sugaya and H. Gemma. 2011. Effect of preharvest factors on the quality and postharvest characteristics of the banana. Presented at the aGRO 2011 Biennial Conference, Faculty of Agriculture, University of Nairobi. Book of Abstracts pg 139
145. Hutchinson, M.J., **Ambuko, J.**, Nyikal, R. and Ruto, G. 2011. Essential Services Package of Support to Improve Productivity of Women Smallholder Farmers in Kenya. aGRO 2011 Biennial Conference Book of Abstracts pg. 128
146. **Ambuko, J**. Pest risk analysis to facilitate trade in horticultural commodities; what role can

the academia play? A plenary paper presented at the Horticultural Association of Kenya Workshop held at AICAD, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya. 8th – 11th December 2010.

II. NON-PEER REVIEWED SCHOLARLY PRESENTATIONS

- 1. Jane Ambuko.** Role of public sector in supporting consumer health and agricultural trade: Research and Academia. GLOBALG.A.P TOUR STOP conference. 28–30 March 2023, Safari Park Hotel, Nairobi
- 2. Jane Ambuko.** Overview of the Current Ecosystem on Post-harvest Loss and Food Waste in Kenya. National Task Team for Postharvest Management Strategy – Consultative Meeting and Write shop, February 12-17, 2023. Eagle Palace Hotel, Nakuru
- 3. Jane Ambuko.** Food Loss and Waste Reduction: Why it Matters for Food & Nutrition Security and Environment. Sensitization Workshop for Joint Agriculture Sector Steering Committee Technical Working Groups for Agriculture, 2nd May, 2023. Eagle Palace Hotel, Nakuru
- 4. Jane Ambuko.** Food Loss and Waste Reduction: Why it Matters for Food & Nutrition Security and Environment. Stakeholder Sensitization on Food Loss and Waste Reduction during Public Participation for the Zero Draft Strategy on Post-Harvest Management. 6th June, 2023, Candela Hotel, Siaya Town
- 5. Jane Ambuko.** Food Loss and Waste Reduction: Why it Matters for Food & Nutrition Security and Environment. Stakeholder Sensitization on Food Loss and Waste Reduction during Public Participation for the Zero Draft Strategy on Post-Harvest Management. 8th June, 2023, Noble Hotel, Eldoret Town
- 6. Jane Ambuko.** Overview of Post-harvest Management in Kenya: Challenges/Gaps and Opportunities. Presented at the Stakeholders Consultation/Inception Workshop organized by FAO-Kenya. Pride Inn Azure Hotel, 29th November 2022

7. **Jane Ambuko**; Postharvest Loss Management: Addressing Data Gaps in Horticultural Value Chains. Fruits, Vegetables & Herbs Conference. Safari Park Hotel, 9-10 Nov 2022
8. **Jane Ambuko**: Postharvest Food Loss and Waste during the COVID-19 Pandemic. UON-FAO Webinar on Food and Nutrition Security under Covid: Technical and Legal Considerations with a Focus on Kenya. 30th April 2020
9. **Jane Ambuko**: Strengthening Small Scale Processors to Reduce Postharvest Losses and Improve Profitability of Smallholder Horticulture. Presented at the FPEAK Fruits, Vegetables & Herbs Conference, KSMS, 25-27th September 2019
10. **Jane Ambuko**: Smallholder Aggregation and Processing Centers for Horticultural Farmers: Challenges and Opportunities for Scaling Up. Presented at the Yieldwise Partners Convening 2019, at the AGRF Conference in Ghana – September 4-7th 2019
11. **Jane Ambuko**: Strengthening Small Scale Processors to Reduce Postharvest Losses and Improve Profitability of Smallholder Horticulture. Presented at the Fruits, Vegetables and Herbs Conference at Kenya school of Monetary Studies, 25-27th September 2019
12. **Jane Ambuko**: Research experience – Successes and challenges, presented at the OWSD Kenya National Chapter Workshop, 2019, 12th July, 2019, *Icipe*, Kasarani-Duduville Campus, Nairobi, Kenya
13. **Jane Ambuko**. Innovations and Technologies in Food Storage & Postharvest Quality Preservation. The 3rd Annual Agribusiness Investors Summit 2019, Strathmore University Business School, 28-29th March 2019.
14. **Jane Ambuko**. ‘Overview of Technologies and Innovations for Youth in Postharvest Management’. Presented at the 2018 Youth and Innovation Summit, WMI – CAVS, Nairobi. 25-26th October 2018
15. **Jane Ambuko**. ‘Applicable Technologies to Reduce Postharvest Losses – Contributing to Food Security’. Presented at Food Security Workshop, CAVS, Nairobi. 9-10th December 2018
16. **Jane Ambuko**. Postharvest Loss Reduction in Horticultural Food Value Chains: Applicable

Solutions from Research. Presented at the Fruits, Vegetables & Herbs Conference and Exhibition.
5th – 7th September, 2018. Kenya School of Monetary Studies

- 17. Ambuko Jane.** ‘Postharvest Loss Management: The Unexploited Front towards Attainment of Food Security’. Invited paper presented at the Africa Food Security Conference and Agri-Exhibition. 14-15 August 2013, Laico Regency Hotel, Nairobi
- 18. Ambuko Jane.** Food Losses and Waste in the Context of Sustainable Food Systems. Food and Agriculture (FAO) Report by High Level Panel of Experts (HLPE). Special Session on Food Losses and Waste at the Horticultural Association of Kenya annual conference, KALRO-Kandara, 4 -8th December, 2015
- 19. Ambuko Jane.** Food Losses and Waste in the Context of Sustainable Food Systems. Food and Agriculture (FAO) Report by High Level Panel of Experts (HLPE). The International Union of Food Science and Technology (IUFoST) symposium on Food Waste and Food Losses: Addressing the global challenges at the Dubai International Food Safety Conference, Dubai, UAE, 26 - 27 October 2015
- 20. Ambuko Jane.** Food Losses and Waste in the Context of Sustainable Food Systems. Food and Agriculture (FAO) Report by High Level Panel of Experts (HLPE). Faculty of Agriculture, University of Nairobi Special Seminar on Postharvest Technologies for Reduced Postharvest Losses, 30th June 2015
- 21. Ambuko Jane.** Food Losses and Waste in the Context of Sustainable Food Systems. Food and Agriculture (FAO) Report by High Level Panel of Experts (HLPE). Food Processing & Packaging Exposyuum in Nairobi, Kenya, 18 - 20 November 2014, FAO Consultation. KICC Nairobi, Kenya
- 22. Ambuko Jane.** Food Losses and Waste in the Context of Sustainable Food Systems. Food and Agriculture (FAO) Report by High Level Panel of Experts (HLPE). African Food Security Conference, Laico Regency, Nairobi – 9th to 11th September, 2014
- 23. Ambuko Jane.** Food Losses and Waste in the Context of Sustainable Food Systems. Food and

Agriculture (FAO) Report by High Level Panel of Experts (HLPE). Regional Follow-up Workshop for Norman Borlaug Fellows – 11th to 15th August, 2014. Beshale Hotel, Addis Ababa, Ethiopia

24. Ambuko Jane. Food Losses and Waste in the Context of Sustainable Food Systems. Food and Agriculture (FAO) Report by High Level Panel of Experts (HLPE). RUFORUM Biennial Conference, 21st to 25th July, 2014. VIP Grand Maputo Hotel, Maputo, Mozambique

25. Ambuko Jane. PEER Participants’ Conference 2014. Nelson Mandela African Institution of Science and Technology, Arusha, Tanzania - August 4-7, 2014. Winner (Crowd Favorite) of Flashtalk Competition for PEER Grantees, Topic – Low-Cost Cold Storage Solutions to Manage Postharvest Losses in Perishables

26. The Conference of African Science Journalists. Invited Panelist at AWARD Luncheon – Topic ‘Significant Shift? The Crucial Role of Women Agricultural Scientists in Innovation and Food Security in a Global Market, October 13th to 15th, 2014). Eastland Hotel, Nairobi.

27. Arim Ogolla, C.A. Onyango, W. Owino, **J.Ambuko**, M.Masaku and L. Wasilwa. 2010. Post-harvest and Transport Technology issues in East and Southern Africa. Kenya Position paper presented at a Regional Video Conference and Kenya Institute of Administration. June, 2010

J. OTHER SCHOLARLY TECHNICAL REPORTS

1. Food Quality Management in Supply Chains Linking Smallholder Farmers to the Home-Grown School Meals Programme. Prepared for the United Nation’s Food and Agriculture Organization (FAO), September, 2022
2. Horticulture Consultative Workshop Report (July 2022) Assessing on-the-ground challenges and opportunities for innovative ideas and technologies that constrain/contribute to practical and academic horticulture pursuits. Presented to the Horticulture Innovation Lab, University of California Davis, USA

3. Data, social determinants, and better decision-making for health (December 2021). The report of the 3-D Commission, Boston University School of Public Health.
<https://3dcommission.health/report>
4. Lessons Learnt and Technical Insights, Charcoal Coolers And Brick Coolers In Kakuma (March 2021). A Feasibility report prepared for the World Food Program
5. Reduction Of Food Loss and Waste, Edited by Joachim Von Braun Marcelo Sánchez Sorondo Roy Steiner, Proceedings of a Conference held at Casina Pio IV, Vatican City, November 11-12, 2019
6. Jane Ambuko (for FAO and African Development Bank). ‘Food losses and Waste Reduction in Africa: Targeted Interventions and Investments for Sustainable Impact’ – Advocacy paper
7. Vishweshwaraiah Prakash, Jane Ambuko, Walter Belik, Jikun Huang and Toine Timmermans (2014). Food Losses and Waste in the Context of Sustainable Food Systems. High Level Panel of Experts – HLPE Report No. 8

K. TEACHING/LEARNING MODULES IN INTERNATIONAL PROGRAMS

1. Postharvest Loss Reduction: Kenya Case Study of Mango in Kenya in Lost Harvest and Wasted Food 2022, Wageningen University Research, WUR, October 2022
2. Making Agriculture Work: A case Study of Mango Fruit in Kenya in Postharvest Food Loss Reduction - Towards Sustainable Food Systems, offered by Wageningen University Research, WUR, June 2022
3. Postharvest Handling and Quality Management in Fruits and Vegetables - A practical Module in Food Loss and Waste Reduction: Towards Sustainable Food Systems. Training course offered by University of Nairobi, February 2022
4. Overview of Postharvest Losses in Value chains: understanding losses through supply chain analysis in Lost Harvest Wasted Food offered by Wageningen University Research (WUR), September 2021

5. Managing Quality in Fruit Crop Systems in Practical Aspects in Postharvest Loss Prevention & Waste Reduction Management offered by Volcani Institute, Israel, February 2022

L. EDITORSHIP

1. Invited Editor, Special Collection ‘**Cold Chain Management in Smallholder Horticulture**’, for *Frontiers in Horticulture*, Postharvest Physiology, Management and Technology Section.
2. Invited Co-editor, Special Issue on ‘**Innovative Solutions for Food Loss and Waste Reduction in Africa**’. International Journal for Postharvest Technologies and Innovation, IJPTI. Inderscience Publishers. <https://www.inderscience.com/jhome.php?jcode=ijpti>
3. Prof. Madara Ogot – Editor-in-Chief Prof. Winnie Mitullah Prof. Kiruti Kanyinga Prof. Walter Jaoko Dr. Richard Ayah Prof. Peter Ngau Prof. George Rading Prof. Tabitha Kiriti-Nganga Prof. Patricia Kameri-Mbote Prof. Attiya Warris Prof. Dan Olago Prof. Timothy Waema Prof. Winston Akala, **Dr. Jane Ambuko**. KENYA POLICY BRIEFS - Towards Realization of Vision 2030. Issue 1, Volume 1, January 2020
4. **Jane Ambuko** (and 18 others) – Expert Reviewers ‘FRUIT AND VEGETABLES Opportunities and challenges for small-scale sustainable farming’ Published by FAO and CIRAD, 2021, Rome. <https://doi.org/10.4060/cb4173en>
5. **Jane Ambuko**, Linus Opara, Olaniyi Fawole, Tsige A.A, Willis Owino, Brighton Mvumi and Vijay Yadav (2019) Editors Peer Reviewed BOOK OF ABSTRACTS, 2nd All Africa Postharvest Congress and Exhibition.
6. George Chemining’wa, **Jane Ambuko**, Douglas Miano, Lydia Wamalwa, Maina Muiru, Onesmus Kitonyo, Cecelia Onyango, Charles Gachuri, Joyce Maina, Dasel Mulwa, Lucy Njue, Oliver Wasonga, Oscar Koech, Evans Chimoita, Jonathan Nzuma. Editors, Peer-reviewed book of abstracts, Agro 2019 Conference

7. **Jane Ambuko** (2018). Editor, Proceedings of the High Level Ministerial Dialogue and Postharvest Losses Reduction and Agro-processing Flagship Launch.
8. **Jane Ambuko** (2017). Editor, Proceedings of 1st All Africa Postharvest Congress and Exhibition – Book of Abstracts and Peer-reviewed Extended Abstracts.
9. **Jane Ambuko** (2017). Editor, Peer-reviewed Extended Abstracts of the 1st All Africa Postharvest Congress and Exhibition.
10. Dionysious Kiambi, **Jane Ambuko**, Hanna Gentle, Teresa Borelli, Mary Abukutsa, Maurice Oyoo, Lusike Wasilwa, Celine Temote, Victor Wasike and Gulia Rota Nodari (2015). Ed. Book of Abstracts, 2nd International Conference on Biodiversity for Food and Nutrition: unlocking the potential of biodiversity for food and nutrition security.
11. Wesonga J.M., Imbuga M, **Ambuko J.** Simiyu A.N. and Marete F. 2012. Farmers’ course on small scale greenhouse farming. A training manual developed under National Council of Science and Technology funded project titled ‘Promotion of Greenhouse Farming for Food Security and Wealth Creation in Western Kenya’.

M. EXHIBITIONS

1. Innovative Processed Products from Mango Fruit and Waste Valorization: Promoting Innovation and Technology in Agriculture & Trade, Exhibited at the Nairobi International Trade Fair, Jamhuri Park, 26th September 26 to 2nd October, 2022
2. Smallholder Aggregation and Processing Centers: Strategy for Postharvest Loss Reduction and Better Market Access fo Smallholder Horticultural Farmers, Exhibited at Regional Horticulture Consultative Workshop, Hermosa Hotel, Karen, 25-27th May, 2022
3. Innovative Products from Mango Fruit Processing and Waste Valorization, Exhibited at Nairobi Innovation week 2022, 26-28 April 2022
4. From the Lab to Land Taking Research Outputs to the End Users; Exhibited at 3rd All Africa

N. WEBINARS

1. Genetically Modified Organisms, GMOs Dialogue: Pathways to Food and Nutrition Security: The Role of Genetically Modified Organisms. November 3, 2022
Role: Organizer and Moderator
2. International Day of Awareness of Food Loss and Waste 2022, September 29, 2022
Role: Organizer and Speaker ‘Food Loss and Waste Reduction Initiatives: For the People. For the Planet’
3. International Day of Awareness of Food Loss and Waste 2021, September 29, 2021
Role: Organizer and Moderator
4. International Day of Awareness of Food Loss and Waste 2020, September 29, 2020
Role: Organizer and Speaker – ‘Technologies and Training/Capacity Building Initiatives in Food Loss and Waste Reduction’
5. Consortium for Innovation in Postharvest Loss and Food Waste Reduction Webinar, March 3, 2021. **Role: Speaker** – ‘Technologies & Innovations for Food Loss and Waste Reduction in Smallholder Zero-Loss Centers: Mango Case Study’.
6. Food Systems Summit 2021 Dialogues, Food Loss Dialogue Organized/Hosted by the Australian Centre for International Agricultural Research and the International Development Research Centre, Canada. June 3, 2021. **Role: Invited Speaker**
Role: Invited Speaker – ‘How Can We Bring Technologies Closer to Smallholder Farmers?’
7. London School of Economics and Political Science, the Firoz Lalji Centre for Africa, Webinar, June 1, 2021. **Role: Invited Speaker** – ‘Managing Food Distribution Bottlenecks to Improve Access to Food During Emergencies’
8. ADMI Institute of Prevention of Postharvest Loss Webinar, June 8, 2021.
Role: Invited Speaker – ‘Managing Upstream Postharvest Food Loss – Lessons from Farm Level Zero-Loss Centers in Kenya’

9. **Jane Ambuko.** ‘Postharvest Food Loss and Waste during the COVID-19 Pandemic’, presented at the UON-FAO Webinar, April 30, 2020 **Role: Speaker**
10. **Jane Ambuko.** Proper Cold Chain Management: Critical for Postharvest Loss Reduction in Horticultural Value Chains. Presented at the SOCAA Webinar, 14th August 2020
Role: Speaker
11. World Food Prize, Food Systems Dialogue focus of Postharvest Management. Webinar organized by the Consortium for Innovation in Postharvest Loss and Food Waste Reduction, October 10, 2020.
Role: Invited Speaker – ‘Role of Smallholder Aggregation Centers to Reduce FLW’

O. MEDIA AND OUTTEACH

I. SCHOLARLY ARTICLES IN MAINSTREAM AND AGRICULTURE SECTOR MAGAZINES

1. **Jane Ambuko.** Squeezing better profits from smallholder mango farming. PAN AFRICAN AGRICULTURE, January - March 2022 Pages 48-19
2. **Jane Ambuko.** Postharvest Loss Reduction for Sustainable Food Systems. The Saturday Standard, Smart Harvest Segment – Pg 3
3. **Jane Ambuko,** Mehrdad Ehsani and Peiman Milani. A-Z of eating nutritious diet during coronavirus pandemic. SATURDAY NATION | Saturday, May 16, 2020
4. **Jane L. Ambuko.** Tackling postharvest losses in mango among resourcepoor farmers in Kenya. ISHS *Chronica Horticulturae* Volume 60:2 (Pages 28-29), September 2020
5. **Jane Ambuko:** High avocado fruit quality is key to competitiveness in the market place. HortiNews, August-September, 2019 Issue, Page 37-38
6. **Jane Ambuko:** ‘Exploiting The Value Of Mango Fruit During The Peak Season’ – HortiNews, June-July, 2019 Issue, Page 21-24
7. **Jane Ambuko;** ‘To put more money in mango farmers’ pockets, we must fully embrace value addition’. Seeds of Gold – January 26, 2019

8. **Jane Ambuko.** Need for a Paradigm Shift in Efforts to Address Food Insecurity in Africa – Reduce Postharvest Food Losses. International Affairs Forum (IAF), Food and Water Security, June 2019 Issue, Pg 31 - 34
9. **Jane Ambuko.** Simple techniques to keep your fruits and veges fresh. Seeds of Gold, June 16, 2018.
10. **Jane Ambuko.** Simple Practices and Technologies for Cool/Cold Chain Management in Fresh Fruit and Vegetables. HortNews – June-July 2018
11. Featured scientists ‘Meet Women who Shape Agricultural Research, Policy’. The Standard on Saturday – SmartFresh Section, 1st December, 2018
12. Featured interview: ‘Six ways to keep your fruits, tubers and vegetables fresh’ by Brian Okinda, Seeds of Gold Magazine, Saturday Nation, Pg 23
13. **Jane Ambuko.** Smallholder aggregation and agro-processing for better market access and profitability while reducing postharvest losses in horticultural value chains. Published in HortNews – April-May 2018 Issue, Pg 40-42
14. **Jane Ambuko.** Easy way to put money in mango farmers’ pockets. Published in Saturday Nation – Seeds of Gold, March 24, 2018
15. **Jane Ambuko.** ‘Keep in control maize losses this rainy season’ Published in Saturday Nation – Seeds of Gold, November 11, 2017. Link <http://ow.ly/EkQS30gLUhB>
16. **Jane Ambuko:** Why reducing postharvest losses is a priority for Africa. Published in The Conversation. November 20, 2017. Link <https://theconversation.com/why-reducing-post-harvest-losses-is-a-priority-for-africa-87312>
17. **Jane Ambuko.** ‘Postharvest Losses: The plight of smallholder mango farmers in Kenya during peak season’. HortFresh Journal, March-April, 2016, Pp 34-35
18. **Jane Ambuko.** ‘Why Groups can free mango farmers from the jaws of brokers’. Seeds of Gold Pp 28, Saturday Nation, March 12, 2016
19. **Jane Ambuko.** ‘Postharvest Losses in Tomato’. Hortinews, September/October 2015, Pp 53,

20. **Jane Ambuko.** ‘Harvest factors that contribute to postharvest losses in fruits and vegetables’. Hortinews, February/March 2016, Pp 38
21. **Jane Ambuko.** ‘Handling fruits and vegetables during el Nino’. Hortinews, November/December, 2015Pp 43-44,
22. **Jane Ambuko.** ‘Postharvest Losses: The plight of smallholder mango farmers in Kenya during peak season’. HortFresh Journal, March-April, 2016, Pp 34-35
23. ‘Kenya urged to adopt technologies to curb postharvest losses’ – a news article on the Coastweek.com following interview at the African Food Security Conference and Agribusiness Exhibition at Laico Regency Hotel. Available at http://www.coastweek.com/3633_agriculture.html
24. ‘Extension Services: A Government’s best support for its farmers’. Featured article on JKUAT Home Page on November 19, 2010 by the editor – following invited lead paper presentation at the Fifth JKUAT Annual Scientific, Technology and Industrialization Conference.
25. The Standard Newspaper article (March 14, 2015) under the SmartHarvest segment - Focus on Innovation section (Page 20) titled ‘Don’s cheap freezer that keeps produce farm fresh’. The Standard Newspaper article, Innovator Section (page 14) on October 29 2014 ‘Low cost device helps farmer reduce waste’. Also featured in AWARD News. Also available on-line <http://www.standardmedia.co.ke/article/2000139795/low-cost-device-helps-kenyan-farmers-reduce-waste>

II. TELEVISION

1. CNN International – Market Place Africa, How Cold Chain is Strengthening Informal Produce Markets in Kenya <https://www.cnn.com/videos/business/2021/03/18/marketplace-africa-kenya-informal-produce-sector-cold-chain-spc.cnn> 13th March 2021

2. KTN Morning Show: Investing in Women, 12th May 2022
https://www.youtube.com/watch?v=4ykw90ppbwU&ab_channel=KTNNewsKenya
3. SMART FARM – CITIZEN TV Man– Mango Value Addition (2020)
<https://youtu.be/q8V9ThizXsY>
4. SHAMBA SHAPE-UP – Post-Harvest losses, Cattle production, Electric Pressure Cooker, Series 10 – Episode 24, <https://shambashapeup.com/series/season-10/ep-24-post-harvest-losses-cattle-production-electric-pressure-cooker/>
5. Panelist on British Broadcasting Corporation (BBC), the Inquiry ‘How Can We Feed 11 Billion People’, Broadcasted on 29th April, 2019, Available on the link
<https://www.bbc.co.uk/programmes/w3csytfv>
6. Agricultural Training in Kenya – Promoting Agriculture among the youth. News clip under the Food Friday Segment of NTV Primetime News (15th August, 2013)

III. BLOGS

1. Jane Ambuko: ‘Lab to Land: Innovative cold storage technologies for smallholder horticultural farmers. Rootooba <https://www.rootooba.com/lab-to-land-innovative-cold-storage-technologies-for-smallholder-horticultural-farmers/> 24th December 2020
2. Jane Lukhachi Ambuko, Margaret Jesang Hutchinson and Komla Prosper Bissi, Emergence of the All Africa Postharvest Congress and Exhibition: Creating Awareness about Food Loss & Waste and Sustainable Solutions 29th September 2020,
<https://uonresearch.org/blog/emergence-of-the-all-africa-postharvest-congress-and-exhibition-creating-awareness-about-food-loss-and-waste-and-sustainable-solutions/>
3. Dirk E. Maier, Jane Lukhachi Ambuko, Jesus Orozco and Joseph O. Akowuah. ‘Food Loss and Waste Reduction – Why it matters for Food and Nutrition Security in Sustainable Food Systems’. 29th September, 2022
<https://sites.google.com/iastate.edu/phlfwreduction/home/blog/united-nations-international-day-of-awareness-of-food-loss-and-waste?authuser=0>

4. Jane Ambuko Eating Healthy to Boost Our Immunity and Protect Our Bodies from Disease-Causing Infections Including COVID-19. April 15, 2020. Research, Innovation and Enterprise Blog, University of Nairobi, <https://uonresearch.org/blog/>
5. 'Ice-Cold Innovation to Reduce Postharvest Losses' – Featured article in the Feed the Future Newsletter – March 27, 2014. Available online at <http://feedthefuture.gov/article/ice-cold-innovation-reduce-postharvest-losses>
6. 'Kenya's Crop of Innovators Moving the Needle on Food Security' featured article on Grand Challenges for Development: Frontline Newsletter –July/August 2014 Edition. Available online <http://www.usaid.gov/news-information/frontlines/grand-challenges/kenyas-crop-innovators-moving-needle-food-security>

IV. YOUTUBE

1. Postharvest Losses in Mango: Causes, Extent and Solutions. Mango Documentary Produced in Collaboration with Wageningen University Research, WUR, September 2022
https://youtu.be/Zk_624eEwVA
2. Post Harvest Management: From Lab to Land, Featured Video, The DrumBeat: Africa Bioscience Trends, ISSUE NO.14. <https://africenter.isaaa.org/drumbeat/issue-14/>
<https://www.youtube.com/watch?v=D0u9NBLC60c&feature=youtu.be>
3. Small-scale processing of fruits and vegetables- <https://www.youtube.com/watch?v=WTCcxEwAuR0>
4. Small-scale processing of Mango chips - <https://youtu.be/72KgAnQPpHs>
5. Small-scale processing of Mango leathers (Rolls) - <https://youtu.be/4fPA7p7omKI>
6. Small-scale processing of tomatoes - <https://youtu.be/QVfkzpXIceE>
7. Small-scale processing of Kales - <https://youtu.be/I0dZz3yGYKc>
8. Cold Storage Technologies and Practices- <https://www.youtube.com/watch?v=ZO7jc5O8vrk>

V. OUTREACH BROCHURE ON POSTHARVEST

- Harvesting and Storage of Cereals, Pulses and Fresh Produce – Produce by Shamba-Shape Up with Input on Fresh Produce.

P. STUDENT SUPERVISION: STUDENTS SUPERVISED TO COMPLETION

I. PHD STUDENTS

1. Joseph K. Njuguna (PhD Horticulture, University of Nairobi). Effect of Growth Regulators and Fertilization on Mango Flowering, Yield and Fruit Quality (Graduated, 2017)
2. Elias K. Mibei (PhD, Food Science and Technology, JKUAT). Application of Metabolomics in Assessment of Functional Diversity and Quality Traits of Selected African Eggplant and Tomato Accessions (Graduated, 2018)
3. Grace W. Mungai. (PhD Plant Biotechnology, JKUAT). Whole-Genome Sequencing and Analysis of the African Eggplant (*Solanum aethiopicum*) and Tomato (*Solanum lycopersicum*). *Graduated in December 2019*
4. Penina Mueni Yumbya (PhD Horticulture, University of Nairobi). Efficacy of Hexanal & Its Mode of Action on the Postharvest Quality of Banana Fruits. Graduated December, 2020
5. Bitange Naphis Mokaya, PhD Agronomy, University of Nairobi. Effect of Calcium Nutrition on Yield, Jelly Seed and Postharvest Quality of Mango Fruits. Graduated in September 2022
6. Mujuka Esther Achieng' Esther, PhD in Agricultural Economics, University of Nairobi. Potential Economic Impact and Willingness to Pay for Postharvest Technologies and Their Value-Added Products among Mango Producers and Consumers in Kenya. Letter of Award – pending graduation in September, 2023

II. MSC STUDENTS

1. Amwoka Emmanuel Muhuyi (MSc Horticulture, University of Nairobi). Effectiveness Of Selected Postharvest Handling Practices and Technologies to Preserve the Postharvest Quality of Mango Fruit. (Graduated, 2021)

2. Enock Mosenda (Msc Agronomy, University of Nairobi). Agronomic traits assessment and effect of water stress on growth, yield and nutritional quality of spider plant (*Cleome gynandra L.*) (Graduated, 2020)
3. Antony Bundi Mwirigi (Msc Agricultural and Applied Economics, University of Nairobi). Analysis of Adoption of Preharvest Practices and their Impact on Mango Postharvest Losses. A case of mango farmers in Embu and Machakos County. (Graduated, 2020)
4. Isaac Nyangena (Msc Food Science and Technology, JKUAT). Effects Of Drying Pre-treatments On The Antioxidant Properties And Shelf Life-stability Of Mango Fruits (Graduated, 2020)
5. Martin Maina (Msc Agronomy, University of Nairobi). Effects Of Water And Nitrogen Nutrition Stress On Growth, Yield And Quality Of Selected African Tomato (*Solanum Lycopersicum*) Accessions And Commercial Varieties (2020)
6. Naomi Nammaiyan Mbondo. (Msc Food Science and Technology, JKUAT). Optimization of Drying Processes for Nutrient and Quality Retention in African Eggplant. Msc Food Science and Technology (Graduated 2020)
7. Benson Maina (Msc Horticulture, University of Nairobi). Efficacy Of Waxing Innovations To Extend Shelf Life And Preserve Postharvest Quality Of Mango Fruit. *Graduated in December 2019*
8. Mary W. Gateri (Msc Horticulture, University of Nairobi). Effect of Nitrogen Fertilization and Time Of Application On Bulbing and Storage Of Onion (*Allium Cepa L.*). Msc Thesis submitted for Examination. *Graduated in December 2019*
9. Fred Manyonzo (Msc Horticulture, University of Nairobi). Evaluating The Effectiveness Of Evaporative Cooling Technologies In Preserving Postharvest Quality Of Tomato Under Different Agro-Ecological Zones Of Malawi. *Graduated in December 2019*
10. Sam Koiile (Msc Agronomy, University of Nairobi). Optimization of Nutrient and Cultural Practices to Increase Leaf Yield of Indigenous Vegetables. (Graduated 2018)

11. Robert John Ouko (Msc Horticulture, University of Nairobi). Effects Of Hexanal Formulations on The Postharvest Life and Quality Of Papaya Fruit. (Graduated, 2018)
12. Chemtai Caroline (Msc Agronomy, University of Nairobi). Effect of fertilizers, harvesting methods and water stress on growth, yield and nutritional quality of leafy Amaranthus spp and Solanum spp. (completed and defended, Graduated 2018)
13. Loreto Atieno Oduor (Msc Food Science and Technology, JKUAT). Improvement Of The Storability And Postharvest Quality Of Cassava Using Surface Coatings (Graduated, 2018)
14. Stanley Kirakou (Msc Horticulture, University of Nairobi). Evaluation Of The Quality Attributes Of Selected Local Cowpea Accessions And Their Response To Postharvest Treatments. (Graduated, 2017)
15. Francis Kangethe Muniu (Msc Horticulture, University of Nairobi). Collection, Characterization And Evaluation Of Vegetable Cowpea Accessions And Response Of Selected Accessions To Organic And Inorganic Nitrogen Fertilizers In Coastal Kenya. (Graduated, 2017)
16. Ann K. Munene (Msc Plant Breeding and Biotechnology, University of Nairobi). Genetic Characterization and Nutritional Analysis of Eastern and South African Cleome gynandra (Spider Plant) accessions. (Graduated, 2017)
17. Karithi Esther M (MSc Horticulture, University of Nairobi). Evaluation of the Efficacy of Low Cost Cold Storage Technologies to Extend Shelf Life of Selected Horticultural Commodities. (Graduated, 2016)
18. Jacinta Wairimu Muiruri. (MSc Horticulture, University of Nairobi). Evaluation Of Maturity Indices For Selected Mango Varieties And The Effect Of Harvest Maturity On Quality Attributes. (Graduated, 2016)
19. Oduor Kenneth Tembe (Msc Agronomy, University of Nairobi). Morphological, Agronomic and Biochemical Characterization Of African Wild Tomato (Lycopersicon Spp). (Graduated, 2016)

20. Lagat Samson Kipchirchir (Msc Agronomy, University of Nairobi). Phenotypic Characterization of African Eggplant (*Solanum Aethiopicum* L. And *Solanum Anguivi* L.) Accessions and Their Adaptation To Water Stress. (Graduated, 2016)
21. Stephen Maloba Etabale (MSc Horticulture). A study on effective concentration and timing of off-season flower induction technologies (Potassium Nitrate and Ethephon) in mango fruits. (Graduated, 2016)
22. Elizabeth Wangechi Gathogo (Msc Agricultural Resource Management, University of Nairobi). Growth and Yield Performance Of Cabbage Varieties Under Different Fertilizer Regimes In Manyatta Sub County, Embu County. (Graduated, 2016)
23. Naphis M. Bitange (M.Sc. Agronomy, University of Nairobi). Effect of varying rates of organic and inorganic fertilizers on growth, yield and nutrient use efficiency of clonal tea (*Camellia sinensis* L. [O] Kuntze. (Graduated, 2016)
24. Kubai R. Mwendwa (Msc Food Science and Technology, JKUAT). Nutritional and Postharvest Characteristics of Commercially Grown Tomatoes For The Local Market In Kenya. (Graduated, 2016)
25. Lilian Atieno Ouma (Msc Horticulture, University of Nairobi). A Comparative Evaluation of Maturity Indices and Quality Attributes of Mango Fruits Produced under Different Agro-ecological Conditions in Kenya and their Response to Postharvest Treatments. (Graduated, 2015)
26. Daniel Wasonga. (Msc Agronomy, University of Nairobi). A comparative Evaluation of Eastern and Southern African spider plant (*Cleome gynandra*) Species for Nutritional and Health Promoting Bioactive Compounds. (Graduated, 2015)
27. Baroness Nyagechanga Omwenga. (Msc Agronomy, University of Nairobi). Effect of Integrated Nutrient Management and Moisture Conservation Practices on Growth, Yield and Quality Of Snap Bean (*Phaseolus Vulgaris* L.) in Central Kenya. (Graduated, 2015)

28. Oliver Nyongesa Wekesa (Msc Agronomy, University of Nairobi). Screening and Testing Finger Millet Varieties for Drought Adaptability and Nutritional Factors in Eastern Kenya. (Graduated, 2015)
29. Nancy Kemunto (Msc Horticulture, University of Nairobi). Effects of Agro-Ecological Conditions on the Post-Harvest Quality and Shelf Life of Apple Mango Fruits and their Response to 1-Methylcyclopropene (1-MCP). Graduated in 2014
30. Peninah Mueni Yumbya. (Msc Horticulture, University of Nairobi). Packaging on Postharvest Shelf Life and Quality of Purple Passion Fruits (*Passiflora Edulis Sims*). Graduated in 2013
31. Ruth Wanjiku Githiga (Msc Horticulture, University of Nairobi). Effect of 1-Methylcyclopropene and Activebag® Packaging on the Postharvest Characteristics of Mango Fruits. Master of Science, Horticulture, University of Nairobi, graduated in 2012.
32. Kamanu, J. Kariuki (Msc Horticulture, University of Nairobi). Effect of Inorganic Nitrogen Application Regimes and *Rhizobium* Inoculation on Growth, Yield and Quality of Snap Bean Varieties in Central Kenya. Msc, Agricultural Resource Management, University of Nairobi. Graduated in 2011
33. Peter Muchiri Daniel (Msc Horticulture, University of Nairobi). Effects of Rates and Sequence of Application of Gibberellic Acid and Benzyladenine on Potato Tuber Sprouting, Yield and Use of True Potato Seed Alternative for Propagation. Master of Science, Horticulture, University of Nairobi, graduated in 2010.

Q. ON-GOING GRADUATE STUDENT SUPERVISION

I. PHD STUDENTS

1. Erneste Murindwa, PhD Food Science and Technology, University of Nairobi. Farmers' knowledge and practices of the standard postharvest handling of avocados in Rwanda and the impact of training, physico-chemical and antimicrobial treatments to increase marketability
2. Finyange Pole, PhD in Agronomy, Kenyatta University. Evaluation of Inorganic and Organic Fertilizers on Productivity and Quality of Bixa Orellana in Kwale County, Kenya

3. Emmanuel Amwoka, PhD Horticulture, University of Nairobi. Postharvest Loss Management in African Leafy Vegetables.

II. MSC STUDENTS

1. Justa Kathambi, MSc Horticulture. Effectiveness Of Coolbottm Technology To Preserve Quality And Extend Shelf Life Of Collards And Tomato Under Different Agro-Ecological Conditions
2. Karen Wambui, MSc Horticulture. The Effect of Nitrogen Fertilization and Harvest Stage on Post-Harvest Quality of Fresh and Dried Black Night Shades and Kales
3. Suleiman Mutuli, MSc Horticulture. Effect of Nitrogen Nutrition on Yield, Postharvest Shelf-life and Quality of Solar Dried Tomatoes
4. Alex Mumo Muinde, MSc Horticulture. Effectiveness Of 1- Methylcyclopropene (1-MCP) On Vase Life and Sensitivity Of Ethylene On Tiger Lily And Oriental Casablanca Lilies
5. Githumbi Rose Njeri, MSc Agricultural Economics. Assessment of Drivers of Postharvest Losses and Factors Influencing Adoption Of Loss Reduction Practices Along The Mango Value Chain In Embu And Machakos Counties, Kenya
6. Alice Gathoni Nyoro, MSc Agronomy, Evaluation of the Integrated Use of Vermicompost and Inorganic NPK Fertilizer on Growth, Yield and Quality of Strawberry (*Fragaria Ananassa*)
7. Naum Jepkurui, Msc Animal Nutrition. Effects Of Inclusion Of Mango Seed Kernel On The Growth Performance, Meat Quality And Carcass Characteristics Of Broiler Chicken
8. Everlyne Nawiri, Msc Nutrition. Effect Of Mango Processing Byproducts On Performance Of Layer Chicken And Egg Quality
9. Edwin Ademba, MSc Horticulture, University of Nairobi. Effect Of 1-Methylcyclopropene Treatments On Ripening Profile Of The Hass Avocado Fruit Under Different Storage Conditions
10. Geoffrey Chomba, MSc Horticulture, Effectiveness Of 1-Mcp On The Ripening Profile And Postharvest Quality Of Tommy Atkins And Kent Mango Fruits

11. Mwarome Jumbale, MSc Food Science and Technology, Optimization of processing parameters in the production of mango flakes
12. Mbusa Shikwaya, MSc Food Science and Technoly, Development of Micronutrient Enriched Mango-Moringa Nectar From Kenyan Apple And Tommy Atkin Mango Variety
13. Oliver Otieno Opondo, Msc Agronomy, University of Nairobi. Effects Of Nitrogen Fertilizer And Topping Height On Growth, Yield And Quality Of Flue Cured Virginia (Fcv) Tobacco
14. Collins Kipkemoi, MSc Environmental & Biosystems Engineering, Optimization of An Evaporative Charcoal Cooling System by use of Computational Fluid Dynamics (CFD)
15. Tefania Nikuze, MSc Plant Health Science and Management, JKUAT. Identification of Microsatellite Markers Linked to Bacterial Wilt Resistance in African Eggplant Accessions
16. Sharon Inzaule, MSc Horticulture. Efficacy Of Sanitizing Agents In Reducing Postharvest Rotting In Tomatoes Packaged In Modified Atmosphere At Different Storage Conditions
17. Jane Ilamwenya Masambia, Msc Agronomy. Effects Of Organic And Inorganic Fertilizers On Growth Yield And Nutritional Quality Of Slenderleaf (*Crotalaria* Species)
18. Fodrick Mourice, MSc Horticulture. Effectiveness of Hot Water Treatment to Disinfest Fruit Flies in Mango Fruits

R. EXTERNAL THESIS EXAMINERSHIP

1. External Examiner, Department of Seed Crop and Horticultural Sciences, School of Agriculture and Biotechnology, University of Eldoret – 2019 to 2023
2. External Examiner – University of Namibia, Faculty of Agriculture, Engineering and Natural Sciences - 2022
3. External Thesis Examiner – School of Agriculture and Entrepreneurship, Kenyatta University - 2020
4. External Thesis Examiner – Department of Horticulture, Jomo Kenyatta University of Agriculture and Technology – 2020 to current

5. External Thesis Examiner – Faculty of Science, Tshwane University of Technology (2021)
6. External Thesis Examiner – Postharvest Technology, Food Science Department, Stellenbosch University – 2020
7. External Thesis Examiner – University of Johannesburg, Department of Botany and Plant Biotechnology - 2023

S. RESEARCH AND DEVELOPMENT PROJECTS

ON-GOING PROJECTS			
#	PROJECT TITLE	FUNDED AMOUNT	FUNDING ORGANIZATION & YEAR
1	Enhancing Productivity, Post-harvest Management and Market Access of African Indigenous Vegetables in Kenya PI Institution - KALRO Role: Co-Principal Investigator	USD 750,000 (Total Project Budget) UON Budget USD 250,000 = KES 35,000,000	USAID – Feed the Future Innovation Lab for Horticulture 2023 - 2026
2.	Technical support for implementation of the Post-Harvest Management strategy for food loss and waste reduction through building technical capacity, developing monitoring frameworks and conducting advocacy of PHM strategy Role: Principal investigator	KES 10,293,400	United Nations Food and Agriculture Organization (FOA) 2023 – 2024
3.	Ecofriendly Cold Storage Solutions Role: Principal Investigator	KES 3,124,400	World Food Program – 2021 to 2023
4.	The Food Systems Research Network for Africa Role: Institutional Champion, UON	GBP 48,000 (KES 8,000,000)	UK Research Innovation (GCRF) 2019 – 2023
5.	Capacity Building in Food	GBP 65,000	UK Research Innovation

	security for Africa – CaBFoodS-Africa Role: Principal Investigator (UON)	(KES 10,000,000)	(GCRF) 2019 – 2022
6.	Adaptation and upscaling of tested and applicable postharvest technologies for smallholder horticultural farmers to reduce postharvest losses. Role: Principal Investigator	KES 12,000,000	National Research Fund, 2017-2023
7.	Consortium for Innovation in Post-Harvest Loss and Food Waste Reduction – Innovation Platform to Gain Sustainable Efficiencies in the Global Food System Role: Principal Investigator (UON)	USD 75,000 (KES 8,000,000)	Foundation for Food and Agriculture Research (FFAR), 2019 – 2023
8.	Application of 1-MCP in mango and avocado – Service Agreement Role: Research Consultant	KES 1,500,000	AgroFresh Ltd (2021 to 2023)
9.	All Africa Postharvest Congress and Exhibition Collection Vote Resource mobilization vote for AAPHCE	USD 450,000 (KES 50,000,000)	Various Funding Organizations
SUB-TOTAL ONGOING PROJECTS		137,624,400	
COMPLETED PROJECTS			
1.	SolCOOL’ - Solar Powered Cold Food Chains for Food Waste Reduction and Value Addition Role: Principal Investigator (UON)	GBP 48,000 (KES 8,000,000)	Innovate UK (UK Research and Innovation) 2019 – 2021

2.	Quality Management and Food Waste in Homegrown School Meals Program Role: Principal Investigator (UON)	KES 4,047,240	United Nations, Food and Agriculture Organization (FAO), 2020-2022
3.	Strengthening Kenyan Small Scale Processors to Access Market and Reduce Losses. Role: Principal Investigator	USD 162,000 KES 18,000,000	Rockefeller Foundation, 2018-2022
4.	University of Nairobi Postharvest Project: Establishment of Aggregation Centers for Smallholder Horticultural Farmers and Organization of the 1st and 2nd All Africa Postharvest Congress and Exhibition. Role: Principal Investigator	USD 504,000 KES 51,000,000	Rockefeller Foundation, 2016-2019
5.	Evaporative Cooling Technologies for Vegetable Preservation in the Kenya Role: Principal Investigator	USD 35,000 KES 4,000,000	D-Lab Massachusetts Institute of Technology
6.	Evaluation of Post-harvest treatments on 'Apple' Mango. Role: Research Consultant	KES 500,000	Safe Pack Products Ltd, 2017-2018
7.	Enhanced preservation of fruits using nanotechnology.) (2014-2018): Role: Co-Investigator	USD 300,000 (KES 30,000,000)	International Development Research Centre (IDRC), 2015-2018
8.	Innovative Cooling Option for Smallholder Farmers Role: Principal Investigator	USD 90,000 KES 10,000,000	USAID under the Kenya Feed the Future Innovation Engine (KFIE), 2013-2015
9.	University of Nairobi Postharvest Research for Vegetable Crops. Role: Principal Investigator	USD 20,000 KES 2,000,000	USAID through World Vegetable Center (formerly AVRDC), 2013-2015
10.	Harnessing Genomics of Edible	USD 60,000	Partnerships for Enhanced

	African Solanaceae Plants for Improved Nutritional and Food Security. Partnerships for Enhanced Engagement in Research (PEER) Science funded by USAID-NSF (2013-2016). Role: Co-Investigator	KES 6,000,000	Engagement in Research (PEER) Science funded by USAID-NSF, 2013-2016
11.	Genetic Characterization of Eastern and Southern African <i>Cleome gynandra</i> (Spider Plant) species for nutritional and health promoting bioactive compounds. Role: Principal Investigator	KES 1,400,000	National Commission for Science and Technology (NACOSTI), 2013-2015
12.	Improving profitability of the mango value chain through strategies for off-season flower induction, proper harvest scheduling and appropriate postharvest handling practices and technologies. Role: Principal Investigator	USD 60,000 KES 6,000,000	Regional Universities Forum (RUFORUM), 2012-2014
13.	Improving incomes for smallholder farmers and other value chain actors through enhanced productivity, post-harvest handling technologies, value addition and marketing of mango and passion fruit products. Role: UON PI	KES 4,000,000	Kenya Government through the Kenya Agricultural Productivity and Agribusiness Project (KAPAP), 2012-2015
14.	Screening Finger Millet Varieties for Adaptability to Drought Prone Ecological Regions of Eastern Kenya as a Strategy to Combat Food Insecurity and Climate Change. Role: Co-Investigator	USD 60,000 KES 6,000,000	Regional Universities Forum (RUFORUM), 2011-2013
15.	Validation of snap bean	KES 20,000,000	Association for Strengthening

	integrated crop management technologies for improved livelihoods. Role: Co-Investigator		Agricultural Research in East and Central Africa (ASARECA), 2011-2013
16.	Enhancing the Postharvest Shelf Life of Passion Fruits Grown under Different Agro-Ecological Conditions through Application of an Ethylene Inhibitor, 1-Methylcyclopropene.) – Role: Principal Investigator	USD 12,000 KES 1,200,000	International Foundation for Science (IFS) 2009 – 2012).
18.	‘Application of Methylcyclopropene (1-MCP) to enhance the Postharvest Shelflife and Quality of Passion and Mango Fruits’. Role: Principal Investigator	KES 900,000	Kenya Government through National Council for Science and Technology (NCST) – (2008 to 2011).
19.	Minimizing Postharvest Losses among Mango Farmers through Training on Good Harvest and Postharvest Handling Practices. Role: Principal Investigator	KES 200,000	Trellis Fund Student Capacity Building Project supported by Horticulture CRSP and USAID (2013-2014).
SUBTOTAL COMPLETED PROJECTS		173,247,240	
GRAND TOTAL (COMPLETED AND ONGOING PROJECTS)		310,871,640	

T. CONSULTANCY ASSIGNMENTS

1. FAO Consultant on Postharvest Loss Reduction Strategy for Kenya - 2022
2. Technical support for IKEA Anchor Program Design, CLASP 2021 - 2022
3. Regional Technical Expert for International Centre for Evaluation and Development, ICED for Horticulture Innovation Lab, 2022

4. Blended learning trajectory on Food Loss and Waste. Institute Wageningen Centre for Development Innovation, WUR, Netherlands. 2021
5. National Post-Harvest Loss Reduction Consultant. Food and Agriculture Organization of the United Nations. April 2020
6. Establishment of Evaporative Cooling Storage Facilities in Kalbi Market (Turkana County) for Fruit and Vegetables traders. Consultancy Assignment by World Food Program (WFP) through UON (2018- 2019)
7. Consultancy Assignment on Targeted Interventions and Investments for Sustainable Impact. Assignment by Food and Agriculture Organization (FAO) and African Development Bank (2018)
8. Consultancy Assignment Training of Technoserve Kenya Field Staff on 'Good Postharvest Handling Practices to Reduce Postharvest Losses in the Mango Supply Chain' (2016). Consultancy Assignment by Technoserve Kenya
9. **Jane Ambuko** (2015). Consultancy Assignment on Training Smallholder Farmers on Postharvest Handling of Vegetables, in Five Counties in Kenya. World Vegetable Center (AVRDC) under USAID.
10. Irungu, P., **J. Ambuko** and William M. Muiro. Farmer Perception Study of *Aflatoxin* Control Using Biological Control –Aflasafe in Kenya, 2012. A consultancy Assignment by African Agricultural Technology Foundation (AATF), Nairobi, Kenya
11. Hutchinson M.J, Nyikal, R and **Ambuko J.** (2010). 'Essential Services Package of Support to Women Farmers'. A consultancy report submitted to Action Aid Kenya (AAK), Nairobi, Kenya
12. Irungu, P. and **J. Ambuko** (2009). Trends in Agricultural Research and Development in Selected sub-Saharan African Countries (2000-2015). A consultancy report submitted to African Agricultural Technology Foundation (AATF), Nairobi, Kenya, 135p.

13. Kaitibie, S., P. Irungu and **J. Ambuko** (2009). Constraints to Agricultural Productivity and the Relevance of Chinese Agricultural Technology to Smallholder African Farmers in Ethiopia, Kenya, and Tanzania. A consultancy report submitted to African Agricultural Technology Foundation (AATF), Nairobi, Kenya, 111p.
14. Irungu, P. and **J. Ambuko** (2009). An inventory of agricultural technologies developed by CGIAR in Africa which are ready for deployment by African smallholder farmers. A consultancy report for the African Agricultural Technology Foundation, AATF, Nairobi, Kenya

U. COMMUNITY OUTREACH/ STAKEHOLDER ENGAGEMENT INITIATIVES

I: Community Engagement Initiatives

1. Established evaporative cooling storage facilities for Jitahidi Women Group, Vihiga County (2022) – Supported by NRF-Kenya
2. Established Evaporative Cooling Technologies for traders at Kaloibei Market in Turkana County, (2019) Supported by the World Food Program
3. Established Evaporative Cooling Technologies for traders at Wajir Town (2022) – Supported by the World Food Program
4. Established Evaporative Cooling Technologies for traders at Marsabit Town (2022) – Supported by the World Food Program
5. Established the 1st Smallholder Horticultural Aggregation and Processing Center in Kenya for Karurumo Smallholder Farmers (2018) – Supported by YieldWise Initiative, Rockefeller Foundation
6. Established a mango processing unit for the Association of Kenya Mango Traders (AKMT), 2021 – Supported by YieldWise Initiative, Rockefeller Foundation
7. Established evaporative cooling storage facilities for smallholder traders in Ngoliba Market, Kiambu County (2019) – Supported by NRF-Kenya

8. Established an off-grid smallholder Aggregation Center established in Masii (Machakos County) – Masii Horticultural Cooperative (2018) - Supported by YieldWise Initiative, Rockefeller Foundation

II. Technical Working Groups

1. National Task Team for the International Day of Awareness of Food Loss and Waste 2023
2. National Technical Working Group on Postharvest Loss Reduction – developed the National Strategy for Postharvest Loss Reduction
3. Member of the Horticulture Fresh Produce Technical Committee of the Kenya Bureau of Standards (2016 to Date). Developed Market Standards for Various Horticultural Commodities (KS Market Standards for Fresh Fruits and Vegetables Published and Launched in 2017)
4. Member of the National Horticulture Technical Working Group
5. Mango Technical Working Group - Developed a strategy for Eradication of the Fruit Fly

III. Organization of National and International Conferences (Last 5 Years)

- Technical Chair and Co-convener, 4th All Africa Postharvest Congress and Exhibition (Hybrid – Virtual and Physical at the African Union Headquarters, Addis Ababa, Ethiopia), 19th to 22nd September 2023. Chair of the Technical Committee of the Congress
- Technical Chair and Co-convener, 3rd All Africa Postharvest Congress and Exhibition (Virtual) 13th to 16th September 2021. Chaired the Technical Committee of the Congress
- Technical Chair and Co-convener, 2nd All Africa Postharvest Congress and Exhibition held at the AU Headquarters in Addis Ababa, 17-20th September 2019. Co-chaired the Technical Committee of the Congress
- Convener, 1st All Africa Postharvest Congress and Exhibition which brought together more than 600 delegates from 40 countries to share information, establish partnerships, show-case postharvest technologies and strategies

- Chair of Organizing Committee, Faculty of Agriculture Conference – Agro 2019 Conference
- Member of Scientific Committee Faculty of Agriculture Conference – Agro 2023 Conference
- Member of Scientific Committee, All Africa Horticultural Congress (AAHC), Hosted by the International Society of Horticultural Science (ISHS), March 2021, Senegal
- Member of organizing committee, Fruits and Vegetables Annual Conference (2017, 2018, 2019, 2022)
- Member of organizing committee, Horticultural Association of Kenya Annual Conferences (2009 to 2018)
- Member of organizing committee, Kenya National Academy of Sciences (KNAS), TWAS-SAREP Regional Young Scientists Conference, 23-25 October, 2019, Nairobi Club

IV. Capacity Building Initiatives

I have conducted several trainings for smallholder horticultural farmers, processors and other value chain actors (local and international)

- Online Training of Agriculture Sector Experts on ‘Making agriculture work for food and nutrition security’, organized by Wageningen University and Research (WUR), October 2022
- Online Training of Agriculture Sector Experts on ‘Lost Harvest’ organized by Wageningen University and Research (WUR), October 2022
- Online Training of Agriculture Sector Experts. Making Agriculture Work: A case Study of Mango Fruit in Kenya in Postharvest Food Loss Reduction - Towards Sustainable Food Systems, offered by Wageningen University Research, WUR, June 2022
- Online training of Agriculture sector experts Overview of Postharvest Losses in Value chains: understanding losses through supply chain analysis in Lost Harvest Wasted Food offered by Wageningen University Research (WUR), September 2021

- Training on Managing Quality in Fruit Crop Systems part of a courses on Practical Aspects in Postharvest Loss Prevention & Waste Reduction Management offered by Volcani Institute, Israel, February 2022
- Training of Food Supply Chain Practitioners from 9 African Countries. Postharvest Food Loss and Waste Reduction: Towards Sustainable Food Systems, Capacity Building in Food Security (CaBFoodS-Africa) Project, 3rd to 5th May 2021
- Training of Food Supply Chain Practitioners from Different Institutions and Counties in Kenya. Postharvest Food Loss and Waste Reduction: Towards Sustainable Food Systems, Capacity Building in Food Security (CaBFoodS-Africa) Project, 1st to 3rd February 2022
- Training of young entrepreneurs on good processing practices and product development from mango fruits – February 2020
- Training of Masii Horticultural Farmers and processors on good processing practices and product development from mango fruits – February 2020
- Training of Karurumo Self-help Horticultural Farmers on good processing practices and product development from mango fruits – March 2020
- Training of Smallholder Horticultural Farmers in Masii, Machakos County (2018) supported by the Rockefeller Foundation
- Training of Smallholder Horticultural Farmers in Karurumo, Embu County (2018), supported by the Rockefeller Foundation
- Training of Technoserve Service Providers in the Mango Value Chain, supported by Rockefeller Foundation under YieldWise Program (2016)
- Training of Smallholder Vegetable farmers in Kiambu, Juja, Homabay, Migori and Vihiga Counties under AVRDC (now World Vegetable Center) Postharvest Project (2016)
- Training of Smallholder mango farmers in Makueni under Trellis project sponsored by USAID (2014)

- Training of Smallholder mango farmers in Makueni County under Coolbot project funded by USAID – Kenya Feed the Future Innovation Engine (KFIE) in 2015

V: Selected Professional Engagements

- Launch of the Pamoja Initiative in partnership with Dehytray East Africa Limited – aimed at scaling up and commercialization of the Dehytray Technology developed by Purdue University on 28th July 2023, at the Upper Kabete Campus
- Hosting of 60 USAID Innovation Lab Directors from around the world – showcasing innovative solutions for food loss and waste management at the Cold Storage Demonstration Hub and Food Processing Hub, on 23rd May, 2023, Upper Kabete Campus
- Hosting of a high level delegation of 30 people from the Rockefeller Foundation Headquarters (New York and Regional Office) – showcasing innovative solutions for food loss and waste management at the Cold Storage Demonstration Hub and Food Processing Hub, 28th June 2023, Upper Kabete Campus
- CLASP – Stakeholders workshop on Agriculture Value Chains Development, Siaya County
- Ministerial Validation Meeting, On IGAD Post Harvest Loss Management (PHLM) Strategy, organized by IGAD, 12 August 2021
- Technical Validation of the IGAD Post Harvest Loss Reduction Strategy - IGAD, FAO, 7th July 2021
- EAC Regional Fruits and Vegetables Platform Meeting
- National Stakeholders Validation of Food Safety Coordination Bill, Movenpick Hotel, Nairobi, 16th Feb 2022
- Invited Panelist, Inaugural NATION LEADERSHIP FORUM on ‘Food Security and Water’ Hosted by the Nation Media Group on 3rd April 2017
- Invited Panelist, Fruit and Vegetables Conference and Exhibition 2017. 13th to 14th September 2017, Kenya School of Monetary Studies, Nairobi, Kenya

- Invited Pitcher, Food loss and waste (FLW) reduction: the role of reliable data on FLW.
AgriProFocus Network Day, Wednesday, 15th November 2017, Safari Park Hotel
- Invited speaker, High Level Ministerial Dialogue and Post-harvest Losses Reduction and Agro-processing Flagship, African Development Bank Convening, Abidjan, Cote d'Ivoire, 21-22nd November, 2017
- Chief rapporteur, High Level Ministerial Dialogue and Post-harvest Losses Reduction and Agro-processing Flagship, African Development Bank Convening, Abidjan, Cote d'Ivoire, 21-22nd November, 2017
- Invited panelist at the Kenya Innovation Engine (Feed the Future) Lessons Learned Event, 21st September 2017 at the Tribe Hotel, Village Market
- Invited session moderator, Rockefeller Foundation YieldWise Convening Session on Understanding Post-Harvest Loss Measurement and its Metrics, February Tuesday 20th February, 2018, Tamarind Tree Hotel, Nairobi, Kenya
- Invited panelist, 2nd Annual Food Tank Summit in New York City. Entitled “Focusing on Food Loss and Food Waste,” held on Wednesday, October 3, 2018 at New York University Law School.
- Invited panelist on “Post-Harvest Losses and Food Waste” during the 2018 High-Level Regional Policy Multi-Stakeholder Dialogue, 20 – 22 November 2018, Maputo, Mozambique
- Invited Panelist Towards Zero Food Losses by 2030, From Subsistence to Surplus, Bridging Humanitarian and Development Action to Power Economic Progress. 5th March, 2019, European Parliament, Brussels
- Invited Speaker/Panelist ‘Agritech and Agribusiness: Innovations and Opportunities for Producing and Consuming Locally’, 2019 Oxford Africa Conference, 17th – 18th May, 2019, Oxford University, UK
- Member of the Scientific Committee and Editorial Board, All Africa Horticultural Congress (AAHC 2020) of the International Society of Horticultural Science (ISHS)

- Invited panelist ‘Postharvest Conference and East Africa Horticulture Experts Workshop’ in Kigali, Rwanda on Jun 6-7, 2019.
- Invited Speaker: African Indigenous Vegetables: Africa Indigenous Vegetables: Presented at From Income Generation to Health and Nutrition Conference. Four Points Hotel, Nairobi, July 18-19, 2019
- Invited expert from KALRO to inventorize TIMPS (Technologies, Innovations and Management Practices) for Mango, Watermelon and Onions, July 1-5, 2019
- Invited Reviewer (KALRO), The Kenya Climate Smart Agricultural Project (KCSAP) Concept Notes, August 13-14, 2019
- Member of the 3-D Commission (2019-2020), a Global Commission on Determinants, Data and Decision-Making, led by Boston University and funded by Rockefeller Foundation
- Invited judge (Global) for the Food System Vision Prize, organized by the Rockefeller Foundation

V. STRENGTHENING TRAINING FACILITIES AT THE FACULTY OF AGRICULTURE

1. Urban Aggregation and Distribution Unit for Fruits and vegetables at UON Field Station – showcasing best practices for fruits and vegetables handling at aggregation centers and market outlets through an Industry-academia partnership between University of Nairobi and MRM-Safal Group.
2. Established the Innovative Low-cost Cold Storage Technologies: Research, Training and Demonstration Unit at the Field Station, Upper Kabete Campus, University of Nairobi – June 2020. Supported by the National Research Fund (NRF-Kenya) and other partners
3. Established the Fruit Processing Hub at Upper Kabete Campus, for capacity building of students and small-scale processors as part of community engagement and outreach initiatives.
4. Established a Mini-Lab for Postharvest Training at Faculty of Agriculture, Botany Main Lab

W. SELECTED AWARDS/ FELLOWSHIPS/APPOINTMENTS

- African Biosciences Challenge Fund (ABCF) Fellowship to conduct short-term research at Biosciences eastern and central Africa (BecA-ILRI Hub (2014-2015)
- African Women in Agricultural Research and Development (AWARD) Fellowship for a two-year mentorship programme (2013)
- Norman E. Borlaug International Agricultural Science and Technology Fellowship. An 8 - 12 weeks Fellowship to be hosted at Michigan State University, USA. Supported by United States Department of Agriculture (USDA) and USAID (2012).
- Appointment to High Level Panel of Experts (HLPE) on Food Security and Nutrition project team on Food Losses and Waste appointed by the Food and Agriculture Organization (FAO) – Committee on Food Security of the United Nations

X. ADMINISTRATIVE/LEADERSHIP POSITIONS

I. WITHIN THE UNIVERSITY

- Head of Horticulture Unit, Department of Plant Science and Crop Protection (2011 to date)
- Chair of the implementation committee for the University of Nairobi Sericulture Project, an academia-industry partnership, 2021 to date
- Chair, UoN-MRM joint implementation committee an academia-industry partnership (2021-to date)
- Member of UON multi-disciplinary committee for Agriculture Technology and Innovation Center (ATIC), an academia-industry partnership – 2021 to date
- College Representative on UON Strategic Plan Development Committee (2018-2019)
- Co-opted member of UON Planning Committee of 6th HUE Week RUFORUM Biennial Conference (2018)
- Member of Nairobi Innovation Week Committee (2019 to date)
- Member of UON Research Week Committee (2018 to 2022)

- University of Nairobi representative, World Universities Network (WUN) Research Group (2017 to 2020)
- Member of University of Nairobi Intellectual Property Policy Review Committee (2023)
- Science, Technology and Innovation, STI Faculty Champion for Faculty of Agriculture, 2023
- ARUA Food Security node coordinator – 2016 to 2020
- Member of Faculty of Agriculture Research and Partnerships Committee (2018 to date)
- Chair of Faculty of Agriculture, Innovations, Commercialization and Visibility Committee (2019 to date)
- Chairperson, Organizing Committee of the Agro-2019 Faculty of Agriculture Conference
- Member of Local Organizing Committee 6th HUE Week and RUFORUM Biennial Conference (2018)
- Member of Plant Science and Crop Protection Research Committee (2020 to date)
- Assistant Examinations Coordinator, Department of Plant Science and Crop Protection (2013 – 2016)
- Coordinator, PhD Horticulture Program, 2021 to date
- Coordinator – Fourth Year students Special Projects (2010 – 2017)
- Coordinator – Msc students Proposal presentation seminars (2014 – 2017)

II. OUTSIDE THE UNIVERSITY

- East Africa's Regional Coordinator for International Society of Horticultural Science (ISHS)
- Member of Regional Advisory Board for the Innovation Lab for Horticulture, Feed the Future (USAID) – 2023 to 2026
- National Secretary, Kenya National Young Academy of Sciences (KNYAS)
- National Vice President, Kenya-International Forum for Science Alumni (Ke-IFSA)
- National Vice Chair, Kenya Japan Scholars (MEXT) Alumni Association
- Member of Executive Committee of the Kenya Japan Alumni Association (KEJAA)

- Internal Auditor and member of Executive Committee, Horticultural Association of Kenya (2012 to 2017)

Y. RECOGNITION AND AWARDS

- University of Nairobi Merit Award (2022), Recognition for Research and Academic Excellence
- Recognized by the FoodTank among the top 28 people globally impacting postharvest loss reduction - 2018
- 1st Runners up, National Diversity and Inclusion Awards and Recognition 2018
- Recognized as Innovation Champion under the Feed the Future – Kenya Innovation Engine, 2017
- Recognized and awarded in 2015 as the top fellow ‘**Influencer**’ following the completion of AWARD two-year mentorship Program (2013-2014)

Z. MEMBERSHIP TO PROFESSIONAL ASSOCIATIONS

2013 – present: Member of American Society of Horticultural Science (**ASHS**)

2005 – present: Member of International Society of Horticultural Science (**ISHS**)

2012 – present: Kenya Society of Agricultural Professionals (**KESAP**)

2016 – present: African Women in Science and Engineering (**AWSE**)

2013 – present: African Women in Agricultural Research and Development (**AWARD**)

2008 – present: Member, Executive Committee member (Internal Auditor) of Horticultural Association of Kenya (**HAK**)

2014 – present: Kenya National Young Academy of Sciences (**KNYAS**)

1999 – present: Life member, Kenya Professional Association of Women in Agriculture and Environment (**KEPAWAE**)

2016 to present: Member of University of Nairobi Alumni Association (**UONAA**)

AA. ACADEMIC AND PROFESSIONAL REFEREES

1. Prof. James Muthomi

Chairman, Department of Plant Science and Crop Protection

P.O Box 29053 – 00625, Nairobi.

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2. Prof. Margaret Hutchinson

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Ag Associate Vice Chancellor, Finance, Planning and Development, University of Nairobi

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